MENDOTA

AMERICA'S LUXURY FIREPLACE

Modern FullView DV Gas Fireplace Insert Heater

Cosmetically Incredible & Highly Efficient at 84.1% Steady State Efficiency

INSTALLATION & OPERATING INSTRUCTIONS

MODEL NO. FV33-M-1111

NATIONA NFI www.nficertified.org

We recommend that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.

INTERTEK CM Warnock Hersey C US

WARNING: If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

WHAT TO DO IF YOU SMELL GAS

- **Open windows.**
- **Do not touch electrical switches.**
- **Do not try to light any appliance.**
- **Extinguish any open flame.**
- **Do not use the phone in your building.**
- **Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.**
- **If you cannot reach your gas supplier, call the fire department.**
- **Installation and service must be performed by a qualified installer, service agency or the gas supplier.**

AVERTISSEMENT : Assurez-vous de bien suivre les instructions donné dans cette notice pour réduire au minimum le risque d'incendie ou pour éviter tout dommage matéeriel, toute blessure ou la mort.

- Ne pas entreposer ni utiliser d'essence ni d'autres vaperurs ou liquides inflammables dans le voisinage de cet appareil ou de tout autre appareil.
- QUE FAIRE SI VOUS SENTEZ UNE ODEUR DE GAZ:
- Ne pas tenter d'allumer d'appareil.
- Ne touchez à aucun interrupteur. Ne pas vous servir des téléphones se trouvant dans le batiment où vous vous trouvez.
- Appelez immédiatement votre fournisseur de gaz depuis un voisin. Suivez les instructions du fournisseur.
- Si vous ne pouvez rejoindre le fournisseur de gaz, appelez le service dos incendies.
- L'installation et service doit être exécuté par un qualifié installer, agence de service ou le fournisseur de gaz.

WARNING

Do NOT use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control, which has been under water.

INSTALLER: Leave this manual with the appliance.
CONSUMER: Retain this manual for future reference.

INSTALLATEUR : Laissez cette notice avec l'appareil.
CONSOMMATEUR : Conservez cette notice pour consultation ultérieure.

AVERTISSEMENT
Une surface vitrée chaude peut causer des brûlures.
Laisser refroidir la surface vitrée avant d'y toucher.
Ne permettez jamais à un enfant de toucher la surface vitrée.

SAFETY AND WARNING INFORMATION

FOR YOUR SAFETY

A qualified installer, service agency, or the gas supplier must perform installation and service.

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

WARNING

Do not operate this appliance with the glass removed, cracked or broken. A licensed or qualified person should do replacement of glass.
AVERTISSEMENT. Ne pas utiliser l'appareil si le panneau frontal en verre n'est pas en place, est craqué ou brisé. Confiez le remplacement du panneau à un technicien agréé.

WARNING

Mendota gas fireplaces are heat producing appliances. Do not burn wood, paper or other materials in this fireplace. This fireplace is designed as a supplement heat source. It is advisable to have an alternative primary heat supply.

In the Commonwealth of Massachusetts:

- Installation must be performed by a licensed plumber or gas fitter;
- A CO detector shall be installed in the room where the appliance is installed.

WARNING: Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to this manual. For assistance or additional information consult a qualified installer, service agency or the gas supplier.

This appliance may be installed in an aftermarket permanently located, manufactured (mobile) home (USA Only), where not prohibited by local codes.

This appliance is only for use with the type(s) of gas indicated on the rating plate. This appliance is not convertible for use with other gases, unless a certified kit is used.

Cet appareil peut être installé dans un maison préfabriquée (mobile) déjà installée à demeure si les règlements locaux le permettent.

Cet appareil doit être utilisé uniquement avec les types de gas indiqués sur la plaque signalétique. Ne pas l'utiliser avec d'autres gas sauf si un kitde conversion certifié est installé.

The installation must conform with local codes or, in the absence of local codes, with the current National Fuel Gas Code, ANSI Z223.1 (NFPA 54) or CAN/CGA B149.1 Installation Code.
Installer l'appareil selon les codes ou règlements locaux, ou, en l'absence de tels règlements, selon les Codes d'installation CAN/CGA-B149.

Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the heater and to replace any part of the control system and any gas control which has been under water".
«Ne pas se servir de cet appareil s'il a été plongé dans l'eau, complètement ou en partie. Appeler un technicien qualifié pour inspecter l'appareil et remplacer toute partie du système de contrôle et toute commande qui ont été plongés dans l'lau

READ and UNDERSTAND all instructions carefully before starting the appliance. ***FAILURE TO FOLLOW*** these instructions may result in a possible fire hazard and will void the warranty.

Any safety screen or guard removed for servicing must be replaced before operating this appliance. Tout écran ou protecteur retiré pour permettre l'entretien de l'appareil doit être remis en place avant de mettre l'appareil en marche.

READ and UNDERSTAND all instructions carefully before starting the appliance. ***FAILURE TO FOLLOW*** these instructions may result in a possible fire hazard and will void the warranty.

Any safety screen or guard removed for servicing must be replaced before operating this appliance. Tout écran ou protecteur retiré pour permettre l'entretien de l'appareil doit être remis en place avant de mettre l'appareil en marche.

THIS UNIT IS NOT FOR USE WITH SOLID FUEL.

Installation and repair should be ***PERFORMED*** by a qualified service person. The appliance and venting system should be ***INSPECTED*** before initial use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding, material, etc. It is ***IMPERATIVE*** that the unit's control compartment, burners, and circulating air passageways ***ARE KEPT CLEAN*** to provide for adequate combustion and ventilation air.

Always KEEP the appliance clear and free from combustible materials, gasoline, and other flammable vapors and liquids.

NEVER OBSTRUCT the flow of combustion and ventilation air. Keep the front of the appliance ***CLEAR*** of all obstacles

and materials for servicing and proper operation.

Due to high temperature, the appliance should be ***LOCATED*** out of traffic areas and away from furniture and draperies. En raison des températures élevées, l'appareil devrait être installé dans un endroit où il y a peu de circulation et loin du mobilier et des tentures.

Clothing or flammable material ***SHOULD NOT BE PLACED*** on or near the appliance. On ne devrait pas placer de vêtements ni d'autres matières inflammables sur l'appareil ni à proximité.

Children and adults should be ***ALERTED*** to the hazards of high surface temperature and should ***STAY AWAY*** to avoid burns or clothing ignition. Les enfants et les adultes devraient être informés des dangers que posent les températures de surface élevées et se tenir à distance afin d'éviter des brûlures ou que leurs vêtements ne s'enflamment.

Young children should be ***CAREFULLY SUPERVISED*** when they are in the same room as the appliance. Toddlers, young children and others may be susceptible to accidental contact burns. A physical barrier is recommended if there are at risk individuals in the house. To restrict access to a fireplace or stove, install an adjustable safety gate to keep toddlers, young children and other at risk individuals out of the room and away from hot surfaces. "Les jeunes enfants devraient être surveillés étroitement lorsqu'ils se trouvent dans la même pièce que l'appareil. Les tout petits, les jeunes enfants ou les adultes peuvent subir des brûlures s'ils viennent en contact avec la surface chaude. Il est recommandé d'installer une barrière physique si des personnes à risques habitent la maison. Pour empêcher l'accès à un foyer ou à un poêle, installez une barrière de sécurité; cette mesure empêchera les tout petits, les jeunes enfants et toute autre personne à risque d'avoir accès à la pièce et aux surfaces chaudes.

These units ***MUST*** use one of the vent systems described in the Installing Your Fireplace section of the Installers Guide. ***NO OTHER*** vent systems or components ***MAY BE USED***.

This gas fireplace and vent assembly ***MUST*** be vented directly to the outside and ***MUST NEVER*** be attached to a chimney serving a separate solid fuel-burning appliance. Each gas appliance ***MUST USE*** a separate vent system. Common vent systems are ***PROHIBITED***.

If the vent-air intake system is disassembled for any reason, reinstall per the instructions provided for the initial installation.

The vent system assembly for this fireplace must be periodically examined by a qualified service agency.

INSPECT the external vent cap on regular basis to make sure that no debris is interfering with the airflow. The flow of combustion and ventilation air not to be obstructed

DO NOT abuse the glass door by striking the glass, slamming the door shut, etc.

Use only authorized parts and materials obtained from Johnson Gas Appliance Company when replacing defective or damaged glass.

DO NOT USE abrasive cleaners on the glass door assembly. ***DO NOT ATTEMPT*** to clean the glass door when it is hot.

Turn off the gas before servicing this appliance. It is recommended that a qualified service technician perform an appliance check-up at the beginning of each heating season.

DO NOT place furniture or any other combustible household objects within 36 inches of the fireplace front.

FV33-M FEATURES - QUICK REFERENCE INFORMATION

EXTERNAL DIMENSIONS: 30-3/8" Wide X 18-3/8" High X 15-3/4" Deep

GLASS SIZE: NeoCeram Glass with non-reflective coating. Visible Glass measures 398 in^2. Actual Glass size is 468 in^2.

MINIMUM FIREPLACE DIMENSIONS REQUIREMENT: 30-1/2 Wide X 18-3/8" High X 15-3/4" Deep

MANTEL ALLOWANCE: 8" Deep Mantel at 12" Above Top Convection Opening Or 30-1/16" Above Floor Level Of This Appliance. Use the Approved Mantel Profile Chart.

VENT SYSTEM ALLOWANCE: Vertical Terminations Only. 10 feet Vertical Minimum. 70 feet Vertical Maximum. 4" exhaust and 3" combustion air intake pipe adapter included with unit. Only the 4" vent pipe is required to be run the full length up to the chimney top adapter. The air intake 3" pipe may be "short-stubbed" above the existing chimney damper. Make certain to pack insulation in the existing damper area to block outside air from flowing through the damper.

VENT DAMPER ADJUSTMENTS AVAILABLE: There are two vent system (air intake only) dampers installed in this appliance:

- ***PRIMARY AIR INTAKE VELOCITY ADJUSTMENT DAMPER***: This is located on the top of the Air Intake Starter collar. This is the Primary Air Intake Velocity Adjustment damper and adjustment of this damper must be made using a leverage tool such as a long screw driver. Factory adjusted to 45 degree Open, this is to be adjusted towards the closed position incrementally once the length of vent system increases past 20 feet only. Below 20 feet, leave at factory adjusted position. See page 52 for details.
- ***SECONDARY AIR INTAKE ADJUSTMENT DAMPER:*** This is located above the glass frame in the top convection air cavity. Adjustment is to be made by loosening the securing nut then sliding to the right to close and to the left to open. This is Factory adjusted to Full Closed (all the way to the right). Leave this at this position for all installations. Adjust only in cases where more combustion air is needed to reduce flame height if flames are engulfing the baffle brick.

CONTROLS: IPI Electronic Ignition System with AC Primary Power and DC Backup Power. Remote Control with Smart Thermostat included. Accent Light operates on AC Power only.

Accent Light System: Accent Light System Included. Light can be turned on or off from remote control. Light can be dimmed using dimmer mounted on Faceplate or Surround.

BURNER SYSTEM: Single Ceramic Plaque Burner.

Burner Media: Optional Glass Marbles of various colors, Pebble Rocks, Driftwood and Glowing Twigs Set.

BURNER SHUTTER SYSTEM: Internal rotary Burner air shutter.

REFRACTORY PANELS: Optional Curved Reflective Black and Silver Porcelain panels.

NATURAL GAS INFORMATION: Factory equipped for Natural Gas. 4.5"WC Minimum inlet pressure required. For NG applications, Burner Orifice Size is #42.

LPG INFORMATION: LP conversion kit #HA-82-00507 is required. 12"WC Minimum inlet pressure required. For the FV33-M LPG application, burner orifices are to be drill size 53". For higher altitude, adjustment to orifice size may be necessary.

INITIAL STARTUP ADVICE

PAINT CURING CYCLE RECOMMENDATION: It is recommended that you run this Insert on maximum flame height for 3 cycles of 2 hours ON and 2 hours OFF initially to cure the paint.

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SPECIFICATIONS
MODEL FV-33-M

	Natural Gas	Propane Gas
Input rating (Btu/hr) 0-610 m	25,000	25,000
Minimum input (Btu/hr) 0-610 m	13,500	20,800
Orifice size (DMS) 0-610 m	42	53
Manifold pressure (in. w.c./kPa) > High Fire	3.5/0.87	10.0/2.50
Manifold pressure (in. w.c./kPa) >Low Fire	1.7/0.42	6.3/1.57
Minimum inlet pressure (in. w.c./kPa)	5.0/1.24	12.0/2.99
Air shutter settings (in)	1/16”	¼”

EFFICIENCIES.....78.7% A.F.U.E, Steady State High Fire 84.1%, Steady State Low Fire 82.8%
.....82.5% Fireplace Efficiency P.4
FLUE VENT LINER.....CO-LINEAR - 4” DIAMETER EXHAUST & 3” DIAMETER INLET
..... Minimum Vent Length is 10 feet. Maximum Vent Length is 70 feet.
NET WEIGHT.....165 lbs.
SAFETY .....AGA CERTIFIED, ELECTRONIC IGNITION IPI SYSTEM
ACTIVATED WITH THERMOSTATIC REMOTE CONTROL.
GAS REQUIREMENTS .....SUPPLY PRESSURE: GAS INLET: 3/8" N.P.T.
NAT. GAS: 7" W.C. [5.0" W.C. MIN., 11" W.C. MAX.]
L.P. GAS: 11" W.C. [11" W.C. MIN., 13" W.C. MAX.]
ELECTRICAL REQUIREMENTS ..... 120 Volts AC, 2 Amps

LISTINGS - INTERTEK TESTING SERVICES TESTED TO: ANSI Z21.88-2009 – CSA2.33-2009 – CAN/CGA 2.17-M91

Gas appliances must be tested and certified by a nationally recognized testing and certification agency to American National Standards Institute - ANSI Gas Appliance Safety Standards. . The Mendota Gas Fireplace Insert has been tested and certified by Intertek Testing Services. 8431 Murphy Drive, Middleton, WI 53562.

INSERT INCLUDES CERAMIC COMBUSTION SYSTEM, NEO-CERAM GLASS,THERMOSTATIC REMOTE ELECTRONIC IGNITION, AGA CERTIFIED SAFETY SYSTEM.

Specific Requirements for the Common Wealth of Massachusetts

The information in this section applies to all installations performed in the Common Wealth of Massachusetts only.

a) For all side wall horizontally vented gas fueled equipment installed in every dwelling, building or structure used in whole or in part for residential purposes and where the side wall exhaust vent termination is less than seven (7) feet above grade, the following requirements shall be satisfied:

1. If there is no carbon monoxide detector with an alarm already installed in compliance with the most current edition of NFPA 720, NFPA 70 and the Massachusetts State Building code in the residential unit served by the side wall horizontally vented gas fueled equipment, a battery operated carbon monoxide detector with an alarm shall be installed in compliance with the most current edition of NFPA 720. NFPA 70 and the Massachusetts State Building Code.

2. In addition to the above requirements, if there is not one already present, a carbon monoxide detector with an alarm and a battery backup shall be installed and located in accordance with the installation requirements supplied with the detector on the floor level where the gas equipment is installed. The carbon monoxide detector with an alarm shall comply with 527 CMR, ANSI/UL 2034 Standards or CSA 6.19 and the most current edition of NFPA 720. In the event that the requirements of this subdivision cannot be met at the time of the completion of the installation of the equipment, the installer shall have a period of thirty (30) days to comply with this requirement; provided, however, that during said thirty (30) day period, a battery operated carbon monoxide detector with an alarm shall be installed in compliance with the most current edition of NFPA 720, NFPA 70 and the Massachusetts State Building Code. In the event that the side wall horizontally vented gas fueled equipment is installed in a crawl space or an attic, the carbon monoxide detector may be installed on the next adjacent habitable floor level. Such detector may be a battery operated carbon monoxide detector with an alarm and shall be installed in compliance with the most current edition of NFPA 720, NFPA 70 and the Massachusetts State Building Code.

3. A metal or plastic identification plate shall be permanently mounted to the exterior of the building at a minimum height of eight (8) feet above grade directly in line with the exhaust vent terminal for the horizontally vented gas fueled heating appliance or equipment. The sign shall read, in print size no less than one-half (1/2) inch in size, “GAS VENT DIRECTLY BELOW, KEEP CLEAR OF ALL OBSTRUCTIONS”

4. A final inspection by the state or local gas inspector of the side wall horizontally vented equipment shall not be performed until proof is provided that the state or local electrical inspector having jurisdiction has granted a permit for installation of carbon monoxide detectors and alarms as required above.

(b) EXEMPTIONS: The following equipment is exempt from 248 CMR 5.08(2) (a) 1 through 4:

1. The equipment listed in Chapter 10 entitled “Equipment Not Required To Be Vented” in the most current edition of NFPA 54 as adopted by the Board; and
2. Product Approved side wall horizontally vented gas fueled equipment installed in a room or structure separate from the dwelling, building or structure used in whole or in part for residential purposes.

(c) When the manufacturer of Product Approved side wall horizontally vented gas equipment provides a venting system design or venting system components with the equipment, the instructions for installation of the equipment and the venting system shall include:

1. A complete parts list for the venting system design or venting system; and
2. Detailed instructions for the installation of the venting system design or the venting system components.

(d) When the manufacturer of a Product Approved side wall horizontally vented gas fueled equipment does not provide the parts for venting the flue gases, but identifies “special venting systems”, the following shall be satisfied:

1. The referenced “special venting system” instructions shall be included with the appliance or equipment installation instructions; and
2. The “special venting systems” shall be Product Approved by the Board, and the instructions for that system shall include a parts list and detailed installation instructions.

(e) A copy of all installation instructions for all Product Approved side wall horizontally vented gas fueled equipment, all venting instructions, all parts lists for venting instructions, and/or all venting design instructions shall remain with the appliance or equipment at the completion of the installation.

SAFETY AND WARNING INFORMATION

READ and UNDERSTAND all instructions carefully before starting the appliance. ***FAILURE TO FOLLOW*** these instructions may result in a possible fire hazard and will void the warranty.

Any safety screen or guard removed for servicing must be replaced before operating this appliance.

DO NOT USE this appliance if any part has been under water. Immediately ***CALL*** a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control, which has been underwater.

THIS UNIT IS NOT FOR USE WITH SOLID FUEL.

Installation and repair should be ***PERFORMED*** by a qualified service person. The appliance and venting system should be ***INSPECTED*** before initial use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding, material, etc. It is ***IMPERATIVE*** that the unit's control compartment, burners, and circulating air passageways ***ARE KEPT CLEAN*** to provide for adequate combustion and ventilation air.

Always ***KEEP*** the appliance clear and free from combustible materials, gasoline, and other flammable vapors and liquids.

NEVER OBSTRUCT the flow of combustion and ventilation air. Keep the front of the appliance ***CLEAR*** of all obstacles and materials for servicing and proper operation.

Due to high temperature, the appliance should be ***LOCATED*** out of traffic areas and away from furniture and draperies. Clothing or flammable material ***SHOULD NOT BE PLACED*** on or near the appliance.

Children and adults should be ***ALERTED*** to the hazards of high surface temperature and should ***STAY AWAY*** to avoid burns or clothing ignition. Young children should be ***CAREFULLY SUPERVISED*** when they are in the same room as the appliance.

These units ***MUST*** use one of the vent systems described in the Installing Your Fireplace section of the Installers Guide. ***NO OTHER*** vent systems or components ***MAY BE USED***.

This gas fireplace and vent assembly ***MUST*** be vented directly to the outside and ***MUST NEVER*** be attached to a chimney serving a separate solid fuel-burning appliance. Each gas appliance ***MUST USE*** a separate vent system. Common vent systems are ***PROHIBITED***.

If the vent-air intake system is disassembled for any reason, reinstall per the instructions provided for the initial installation.

The vent system assembly for this fireplace must be periodically examined by a qualified service agency.

INSPECT the external vent cap on regular basis to make sure that no debris is interfering with the airflow. The flow of combustion and ventilation air not to be obstructed

DO NOT abuse the glass door by striking the glass, slamming the door shut, etc.

Use only authorized parts and materials obtained from Johnson Gas Appliance Company when replacing defective or damaged glass.

DO NOT USE abrasive cleaners on the glass door assembly. ***DO NOT ATTEMPT*** to clean the glass door when it is hot.

Turn off the gas before servicing this appliance. It is recommended that a qualified service technician perform an appliance check-up at the beginning of each heating season.

DO NOT place furniture or any other combustible household objects within 36 inches of the fireplace front.

CAUTION: Do not operate the appliance with glass removed, cracked or broken. Replacement of the panel(s) should be done by a licensed or qualified service person.

CONGRATULATIONS

You are the owner of a world-class heat producing gas direct vent sealed combustion fireplace.

This elegant, highly efficient Fireplace will be a constant source of comfort and fascination. It will be the focal point of beauty and interest in your home.

The Mendota Gas Fireplace is a true heating appliance incorporating Modern aesthetics of fire viewing with the controllability and fuel efficiency of a home gas furnace. Of particular interest is the low fuel consumption and brilliant fire viewing afforded by the FullView Glass System.

Carefully read the following instructions prior to actual installation. Proper Mendota Gas Fireplace installation and operation will give you years of safe, trouble free comfort and enjoyment.
If you have any questions regarding installation or operation of your Mendota Fireplace please contact your local dealer.

...CAUTION...

Due to high temperatures, the Fireplace should be located out of traffic and away from furniture and draperies. Children and adults should be alerted to the hazards of high surface temperature and should stay away to avoid burns or clothing ignition. Young children should be carefully supervised when they are in the same room as the Mendota Gas Fireplace.

Clothing or other flammable material should not be placed on or near the Fireplace.

Any safety screen or guard removed for servicing an appliance must be replaced prior to operating this appliance.

The Mendota Gas Fireplace is a powerful and efficient heating unit. It has been designed as a major source of supplemental heat. As with any mechanical appliance there can be component shut downs. It is advisable to have an alternate heat supply.

Installation, repair and any adjustments to logs or burner must be done by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, carbon build-up, etc. It is imperative that control compartments, burners and circulating air passageways of the appliance be kept clean. The burner and pilot flames and logs should be visually checked periodically.

DO NOT use this appliance if any part has been under water or exposed to moisture corrosion. Immediately call a qualified service technician to inspect the Fireplace and replace any part of the control system and any gas control, which has been under water. DO NOT use this fireplace if the burner does not light immediately. Turn unit off and call Mendota approved service person if there is any delay in burner light off.

It is Johnson Gas Appliance Company's policy that no responsibility is assumed by the Company or by any of its employees or representatives for any damages caused by an inoperable, inadequate, or unsafe condition which is the result, either directly or indirectly, of any improper operation, installation or servicing procedures.

Building Permit and Installation Inspection Approval Requirements

All installations of Mendota Fireplaces and Inserts must comply with all the requirements stated in this Installation and Operating Instructions Manual. The Dealer and/or installer must also obtain all required Building Permits and Inspection Approval from the local building inspection department or the local body having jurisdiction. In order to validate warranty coverage, Mendota may require facsimile copies of the Building Permit and Inspection Approval forms. Failure to provide adequate proof that the installation conforms to all local requirements and the requirements stated in the Installation and Operating Instructions Manual will void all applicable warranty.

INSTALLER: THESE INSTRUCTIONS ARE TO REMAIN WITH HOMEOWNER.

HIGH ALTITUDE INSTALLATION INFORMATION: Prior to installing at altitudes higher than 7500, please contact the Mendota technical service department for specific venting requirements and venting restrictions.

GENERAL INFORMATION

Your Mendota Gas Fireplace Insert has a state-of-the-art direct vent, sealed combustion system. This advanced, highly efficient system brings in outside air for combustion, has a separate exhaust vent and efficiently heats and re-circulates room air. The Mendota system maintains high air quality, maximizes efficiency and assures proper operation.

SAFETY AND STRUCTURAL CONCERNS:

The FV33-M Fireplace Insert must be installed and serviced by a Mendota approved serviceperson. Any adjustments to burner, pilot, logs or coal bed must be made by a Mendota approved service person. If pilot goes out, always wait five (5) minutes before relighting pilot. The flame must not "lift" off the burner.

ALWAYS USE MENDOTA FACINGS, MENDOTA VENT SYSTEMS AND MENDOTA APPROVED VENT CAPS. ONLY DOORS CERTIFIED WITH THE APPLIANCE SHALL BE USED.

A non-combustible hearth protector is required and must extend a minimum of 16" in front of the fireplace when this insert is installed at floor level.

VENTING REQUIREMENTS

Use only Mendota specified vents and vent caps when installing your fireplace insert. All vent pipe sections must be tight and leak proof.

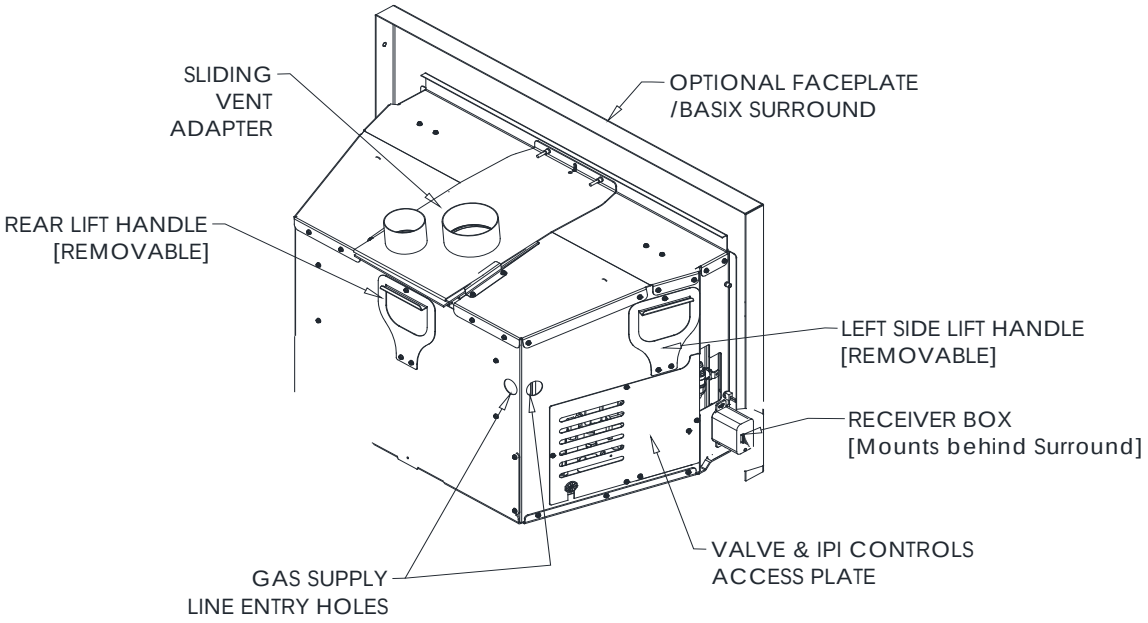
HEATING PERFORMANCE

The Mendota FV33-Mi I Fireplace Insert is a true, high efficiency gas heater. The Mendota Insert will usually heat a large area of your home if situated to maximize heat circulation. **NOTE:** The Mendota Insert is designed as a supplemental heat source. It should not be used as a whole house heating system. Supplemental air movement considerations for maximizing heat circulation are: through-the-wall grills, floor grills, ceiling fans, or the continuous operation of central heating and cooling blowers. The most EFFICIENT and successful method for overall heat distribution is a ceiling fan. The heat output of the Insert can be reduced by using the down arrow on the Remote Control.

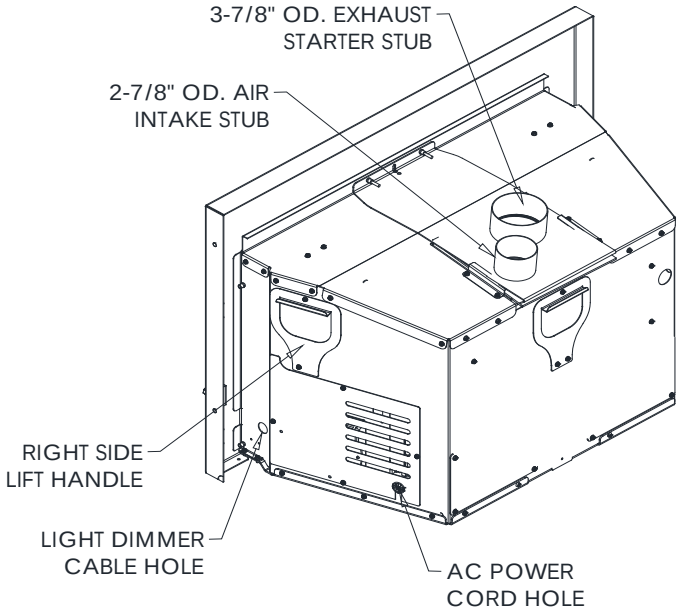
ELECTRICAL REQUIREMENTS

A 120-volt electrical service must be supplied at the fireplace location at the time of installation for Accent Light function and Ignition System function.

FV33i EXTERNAL FEATURES
-IDENTIFICATION DIAGRAMS-

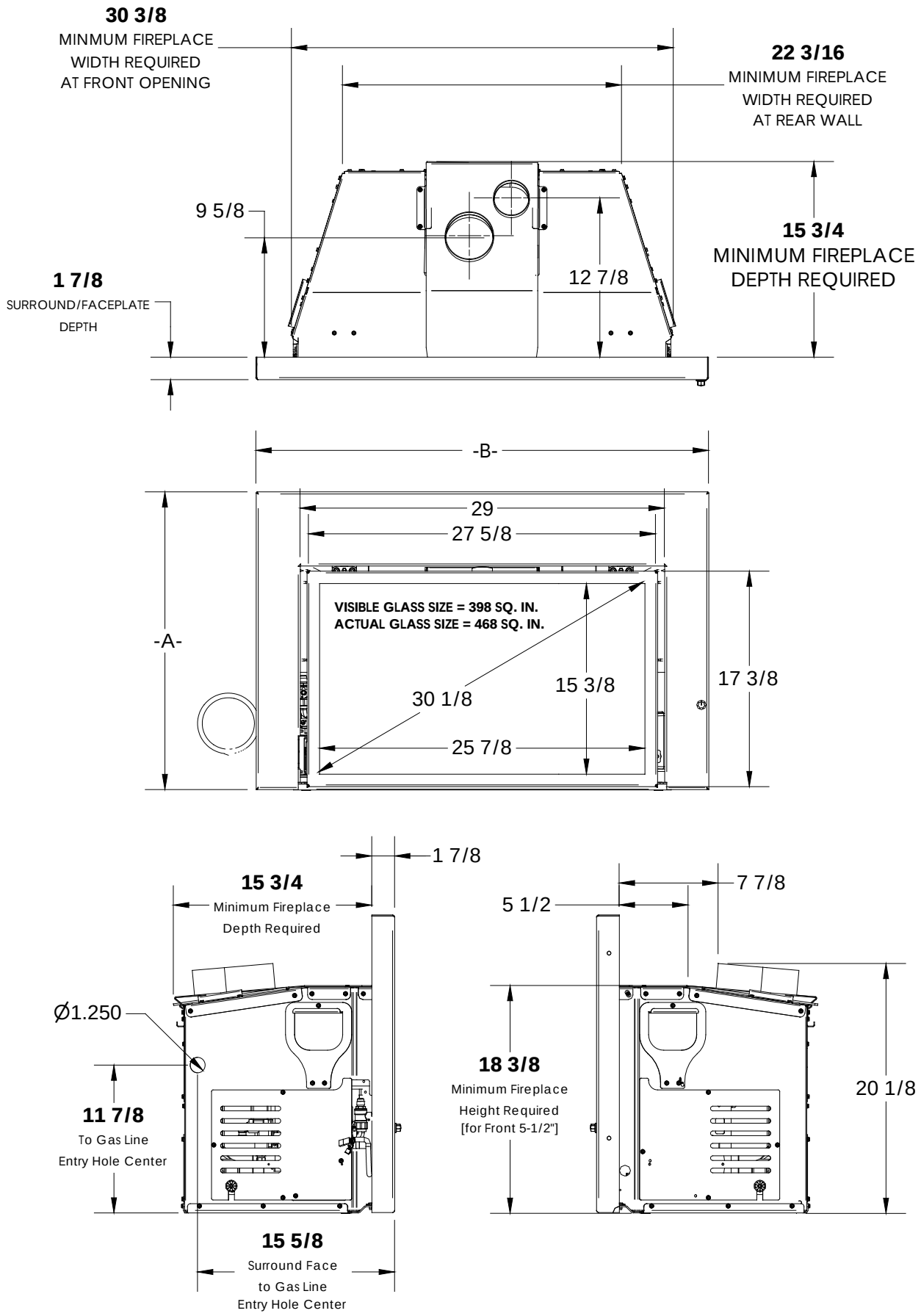

SLIDING VENT ADAPTER
OPTIONAL FACEPLATE /BASIX SURROUND
REAR LIFT HANDLE [REMOVABLE]
LEFT SIDE LIFT HANDLE [REMOVABLE]
RECEIVER BOX [Mounts behind Surround]
VALVE & IPI CONTROLS ACCESS PLATE
GAS SUPPLY LINE ENTRY HOLES

LEFT SIDE & BACK PANEL VIEW



RIGHT SIDE & BACK PANEL VIEW

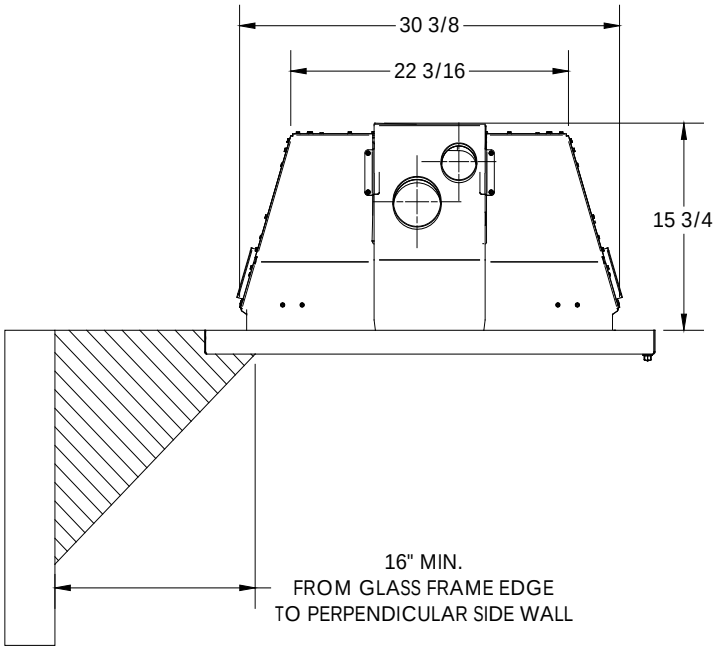
FV33-M OVERALL DIMENSIONS

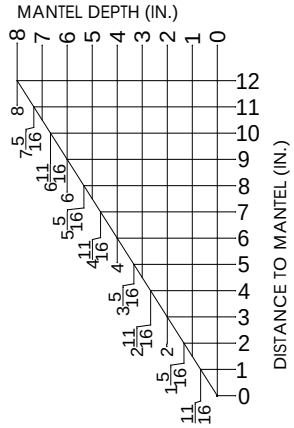


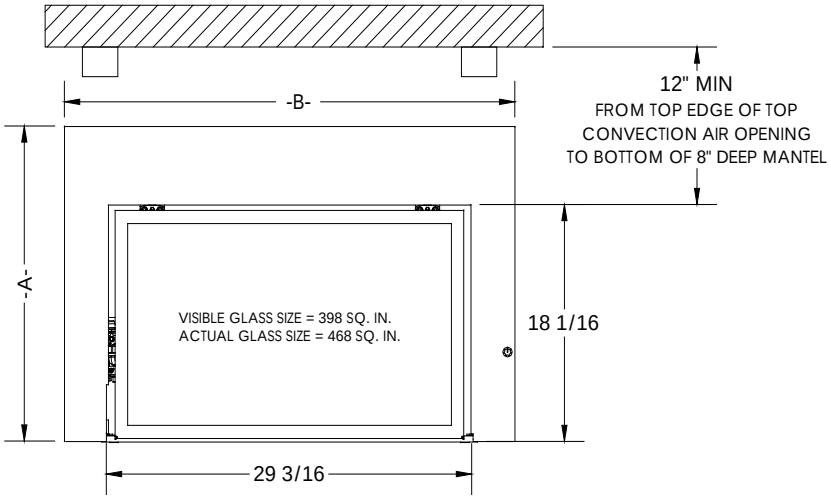
MENDOTA FV33-M GAS DIRECT VENT FIREPLACE INSERT
SPECIFICATIONS & CLEARANCES

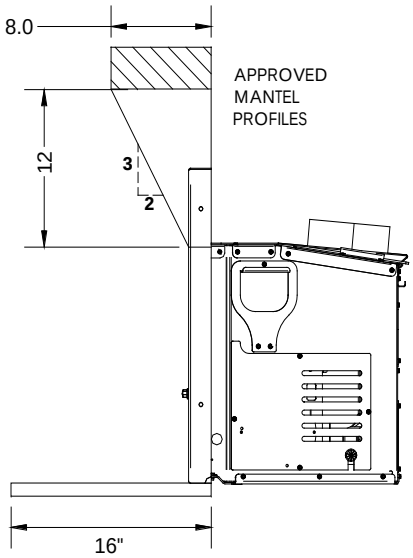
Minimum Fireplace Opening Required
30-3/8" wide X 18-3/8" high X 15 3/4" Deep

FV33-M Faceplate Dimensions				
	A		B	
	Inches	mm.	Inches	mm.
No Trim	24	610	36	915
Is available	27	686	40	1016
For FV33-M	31	788	44	1118









HEARTH PROTECTION PAD REQUIRED IF NOT ELEVATED. FOR EVERY 1-INCH THE UNIT IS ELEVATED, HEARTH PROTECTION PAD DEPTH MAY BE REDUCED BY 2". IF ELEVATED 6" OR MORE, NO HEARTH PROTECTION PAD IS REQUIRED.

INSTALLATION INSTRUCTIONS

CAUTION: Each installation must conform to all local, state and national codes. Refer to the national fuel gas code and local zoning and code authorities for details on installation requirements. The Mendota Inserts must be vented to the outside in accordance with the latest edition of the National Fuel Gas Code. In the absence of local codes, the installation must conform with National Fuel Gas Code ANSI Z223.1 (NFPA 54), or Canadian Code CAN1-B149 or most current edition, also known as NFPA 54. Do not connect this Insert to a chimney flue serving a separate solid fuel or gas-burning appliance.

1. Remove glass doors, metal fire screens, etc. from existing fireplace. Be sure there is 12" minimum distance from top of upper grill to bottom of mantel; see Specifications (Pg.12 & 5), and a 16" minimum non-combustible hearth extension in front of the glass surface if a raised hearth is not supplied. (See pg. 18 for "Raised Hearth").

2. Remove any additional framework or other obstructions in the existing fireplace opening and burning area. Also remove any chimney cap from top of chimney so that vent liner can be installed freely.

3. Before Insert is installed, have gas supplier or contractor run gas line to the existing fireplace. Be sure gas plumbing instructions [see Pg. 19 & 20 are carefully followed. Gas supply may enter fireplace on either side or back of fireplace, whichever is most convenient and accessible. Electrical service (120 volt) should also be supplied.

4. The entire chimney should be swept to remove creosote, soot and any obstructions (bird nests, etc.).

5. Open fireplace damper. If damper opening is large enough to accept the 4" and 3" flue liners, permanently secure damper in "open" position. **NOTE:** *Massachusetts requires that the flue damper must be removed or permanently welded in the "open" position.*

6. If damper opening is too small for the 4" & 3" flue liners, it will be necessary to remove the damper handle and the damper plate. Some damper plates are held in place by a pinned hinge that can be released easily by tapping out the pin with a hammer and punch. Others may be held in place by a screw or bolt, or pivots may be cast into the damper housing. The pinned-hinged types may be harder to get out and may require sawing or breaking out. [NOTE: if flue size is 6" (127 mm) or less, or if severe offsets occur, or a significant mortar slop is evident between the liners, try to snake liner down the chimney to the top of the damper housing before breaking out damper plate and housing.]

CAUTION: If the 4" & 3" flue liners cannot be installed in an extremely tight chimney DO NOT proceed with installation.

7. If damper opening is narrower than 4-1/2" to 5" (114 mm to 127 mm) and if local code authorities allow, loosen and remove mortar behind back side of damper housing in the center of the opening enough to get the gripping teeth of a pipe wrench over the flange of the damper housing (for cast iron housings). Tighten the wrench snugly, and kick down on the wrench handle to break out a half moon shaped piece of the damper housing, enough to easily fit the flex liner through it. If the opening is wide enough, the break out is not necessary.

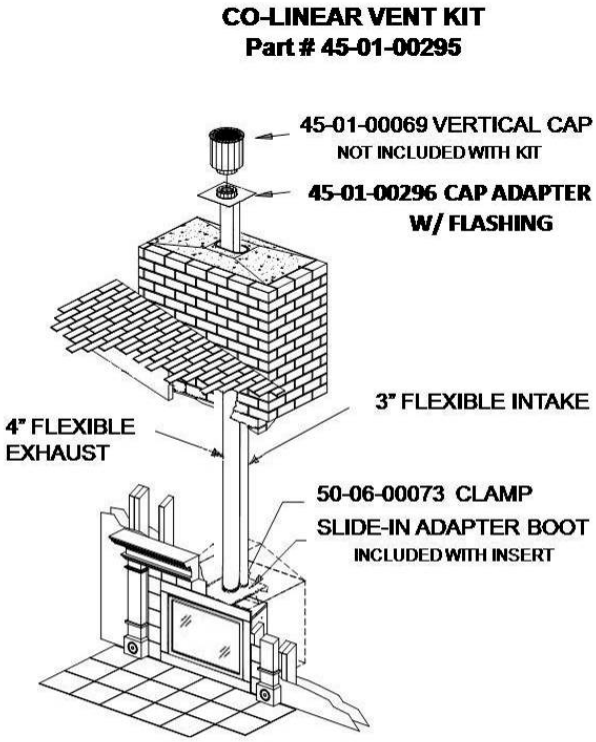
8. **Install Insert only in chimney heights of 10' (minimum) to 70' (maximum) -- as measured in step 9 below.**

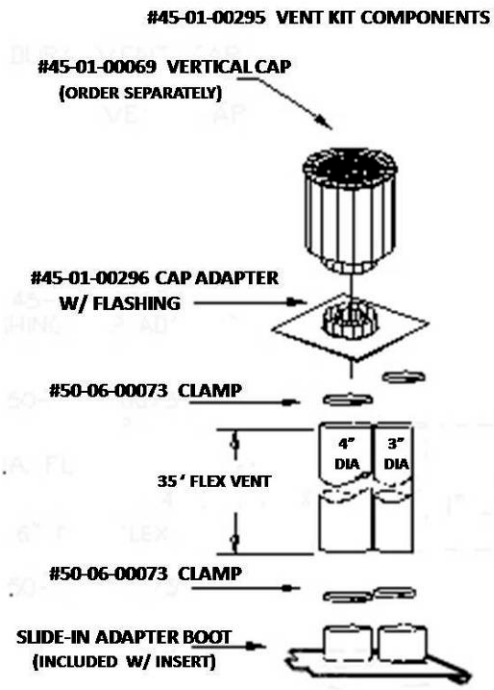
9. Measure the chimney height from the top of the chimney (or the existing flue liner) to a point 24" (610 mm) above the floor of the fireplace hearth. It may be necessary to drop a rope and measure the rope itself. Be sure to allow for all offsets in existing chimney. Cut the 4" and 3"diameter flex liner (s) to this measured length.

FLUE VENTING

The FV33-M Insert must be vented vertically to the outside and must use the Mendota Co-Linear flexible ducting system. The minimum vertical vent length required is 10 feet. The maximum allowed vertical vent length is 70 feet. In the USA, the air-intake pipe may be run past the damper into the chimney and terminated with an open end 2 feet past the damper mechanism.

NOTE: THE INSERT IS DESIGNED, TESTED AND LISTED FOR OPERATION ONLY WITH MENDOTA INSERT VENTING COMPONENTS AS LISTED IN FIGURES BELOW:





The solid-fuel fireplace chimney must be clean and in good working order and is constructed on non-combustible materials

Chimney cleanouts must fit properly.

The refractory, glass doors, screen, and log grates can be removed from the solid-fuel fireplace to accommodate the gas insert.

Smoke shelves, shields, and baffles can be removed if attached with mechanical fasteners.

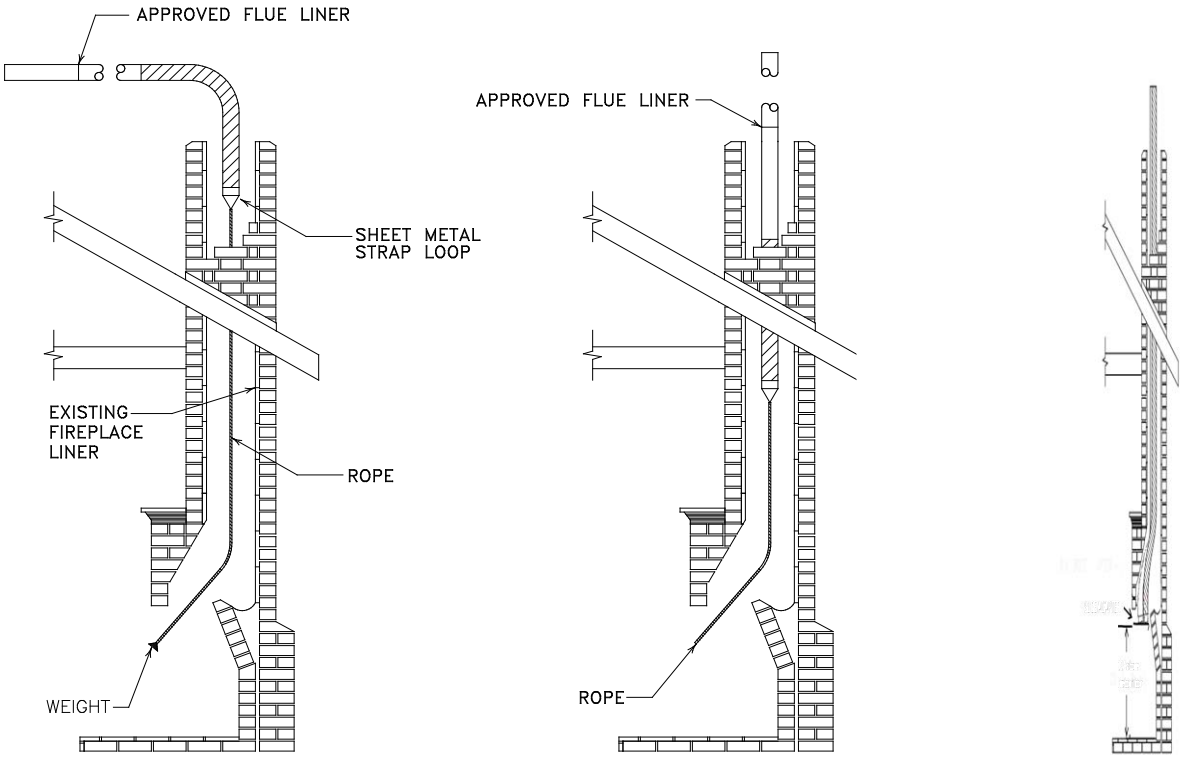
WARNING: Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

Cutting of any sheet metal parts on the solid-fuel fireplace is prohibited.

Chimney Flashing and cap

(See FIGURE BELOW) The vent kits include a trim-able flashing. Measure, trim and shape flashing to fit the existing flue liner. This flashing prevents water and small animals from entering area between the chimney liner and flue liner. Plan for 1" to 1-1/2" (25 mm to 38 mm) overlap on each side. Center the flashing and mark it about 3" (75 mm) larger in each dimension than the existing chimney. Trim the notch with snips and bend edges with hand seaming tool, metal break or pliers.

12. Attach a sheet metal strap loop to the flex end of the liner(s) and tie a rope to it. Two installers should proceed to the roof and drop the rope (with weight on the end to make sure it goes all the way down) and insert the liner(s) past the flexible portion, into the existing chimney – SEE BELOW:



13. One installer should then return to the fireplace opening and pull the rope to guide the liner into place through the smoke shelf and the damper opening to a point 22" (560 mm) above the fireplace hearth. The person below should wear leather gloves and Safety Glasses during this process to avoid being cut and to safeguard eyes from flying debris.

CAUTION: WHEN USING FLEX ALUMINUM LINER, USE EXTREME CAUTION WHEN STRETCHING LINER AROUND OFFSETS SO AS NOT TO RUPTURE LINER.

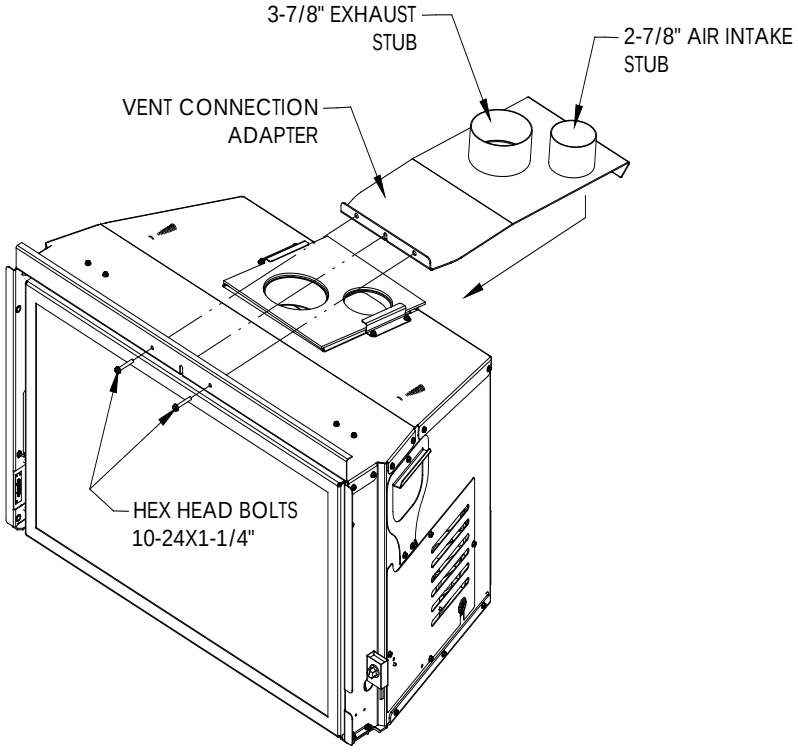
14. Remove the Vent Adapter by removing two 5/16” Hex Bolts and sliding Vent Adapter towards rear of Insert.

15. Tightly secure 3” and 4” flex vents with clamps provided. Seal vent cap/flashing to top of chimney with weatherproof sealer. Seal areas between flex pipes and existing chimney, at damper area, with unfaced fiberglass insulation.

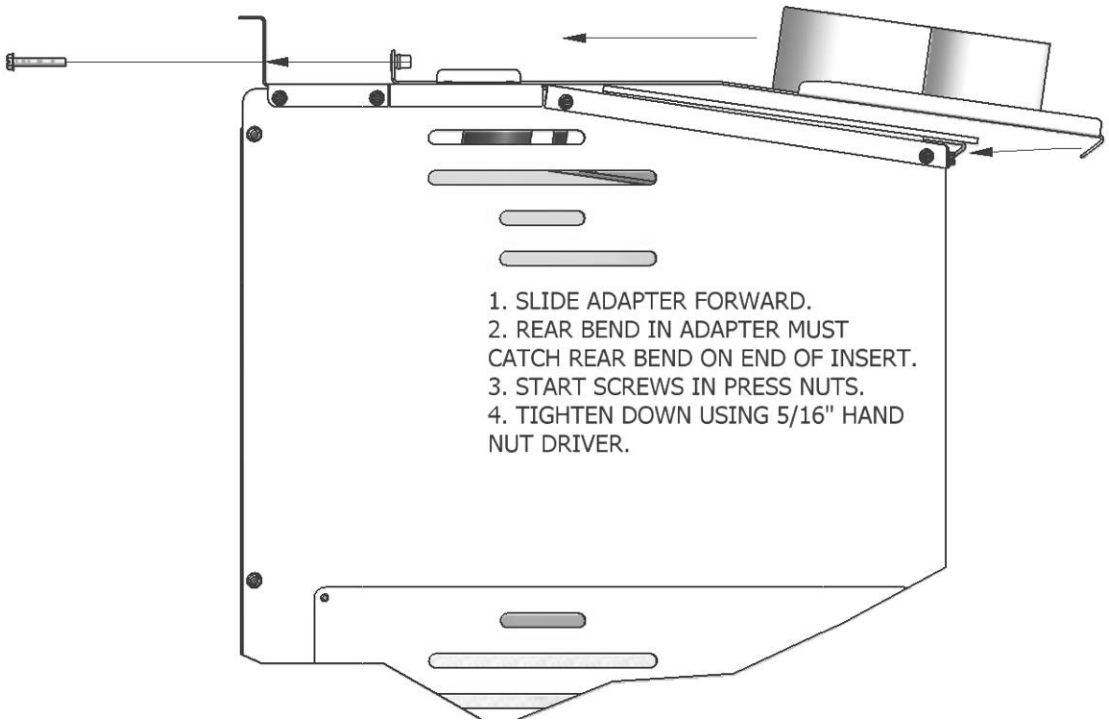
16. Carefully slide Insert into the fireplace opening (Note: Plug in the AC Power cord to a 110 volt AC receptacle inside the fireplace opening or extend it out and connect to a grounded wall outlet.

17. Slide Vent Adapter forward between guide rails. Vent Adapter’s front flat section should contact insert top as you slide the Vent Adapter forward.

18. Use Glass Latch Tool to grab Vent Adapter through slot and hole provided. As you apply downward pressure, pull Vent Adapter forward until front flange on Vent Adapter is about ½” away from front lip on Insert.



19. Slide 5/16” Hex Bolts through holes in face of Insert and start one Bolt in each of the two press nuts on Vent Adapter Flange. Using a 5/16” Hex Hand Driver, tighten the hex bolts a few turns at a time alternating between the two hex bolts until the screws are hand tight and vent adapter is pulled fully forward.


1. SLIDE ADAPTER FORWARD.
2. REAR BEND IN ADAPTER MUST CATCH REAR BEND ON END OF INSERT.
3. START SCREWS IN PRESS NUTS.
4. TIGHTEN DOWN USING 5/16" HAND NUT DRIVER.

18. You are now ready to hook up the Insert to gas supply. Be sure gas plumbing instructions and all state and local codes have been carefully followed. Be sure all items on Installation Check-Off List have been completed.

NOTE: AGA APPROVED FLEX LINES ARE APPROVED FOR USE WITH MENDOTA INSERTS.

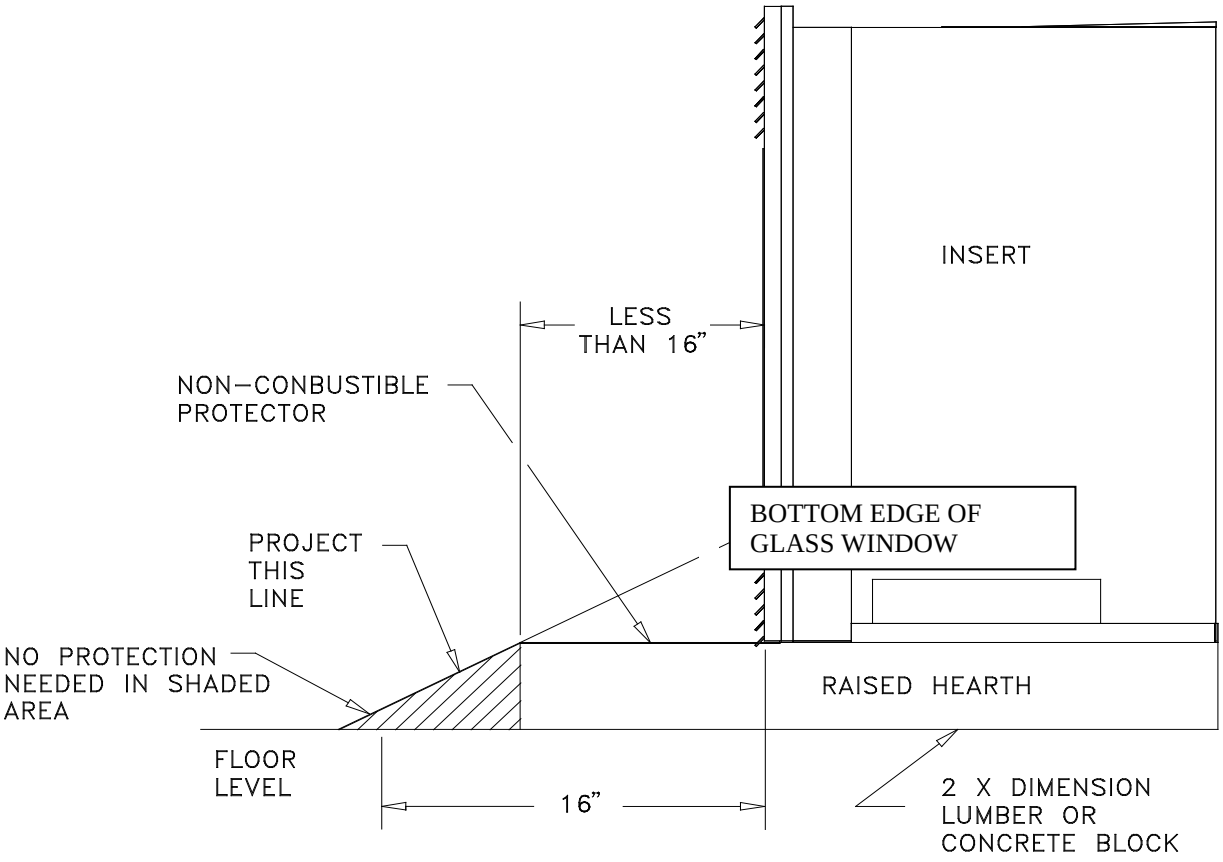
19. Carefully slide the Insert into place in the fireplace opening. At this time, check that Insert is level and plumb with the fireplace opening and positioned in the middle of the opening. If Insert is unsteady or needs leveling, the unit may need to be "shimmed with washers under the bottom corners of insert.

20. The proper Insert Faceplate can now be placed in position. Assemble surround by following instructions supplied with faceplate kit. Select the appropriate size of faceplate to cover the area between the Insert and existing fireplace opening.

...IMPORTANT...

INSTALLATION, SERVICING AND REPAIR MUST BE DONE BY A QUALIFIED SERVICE PERSON. THE INSERT SHOULD BE INSPECTED AT LEAST ANNUALLY BY A PROFESSIONAL SERVICE PERSON. MORE FREQUENT CLEANING MAY BE REQUIRED DUE TO EXCESSIVE LINT FROM CARPETING, BEDDING MATERIAL, ETC. IT IS IMPERATIVE THAT THE CONTROL COMPARTMENT BURNERS AND CIRCULATING AIR PASSAGEWAYS OF THE INSERT BE KEPT CLEAN.

RAISED HEARTH SPECIFICATIONS



In most installations, a 16" non-combustible protector is required in front of the unit's glass door surface on the floor or raised hearth. This protection can be any non-combustible material such as 24-gauge sheet metal, tile, brick, concrete board, etc. Please note that the required 16" clearance starts at the front face of the glass door. If replacing a wood-burning insert with this gas insert, the existing and approved hearth protection will provide adequate floor protection as long as the hearth protector protrudes at least 16" out from the front surface of the door glass.

If a raised hearth extends less than 16", refer to the diagram above and the following procedure to see if additional floor protection is required.

Project a line (using string or a tape measure) from the lower edge of the glass window to the edge of the raised hearth, continuing on to the floor. If the point of intersection with the floor is beyond 16" from the Insert, then no further floor protection is required. If the intersection is less than 16" from the Insert then additional non-combustible floor protection is required to meet the minimum 16".

For installations where the fireplace is raised 6" or more above the floor, or if the existing floor is non-combustible (stone, brick, etc.), a non-combustible protector is not required.

GAS SUPPLY REQUIREMENTS

NOTE: IF INSERT IS TO BE OPERATED WITH LP GAS, SEE PAGE 34 BEFORE PROCEEDING.

CORRECT GAS PRESSURE AND PROPER GAS SUPPLY LINE SIZING IS IMPERATIVE TO THE SUCCESSFUL PERFORMANCE OF YOUR ENDOTA GAS FIREPLACE INSERT. BE SURE THE GAS SUPPLIER OR PLUMBER CAREFULLY CHECKS FOR CORRECT GAS PRESSURE AND GAS LINE SIZING WHEN INSTALLING THE FIREPLACE INSERT.

IT IS CRITICAL TO CAREFULLY CHECK FOR GAS LEAKS WHEN HOOKING UP THE FIREPLACE INSERT -- CHECK WITH SOAP & WATER SOLUTION.

BE SURE TO INSTALL FLEX GAS LINE WITH BRASS-TO-BRASS FITTINGS TO PREVENT GAS LEAKS AT CONNECTIONS.

GAS SUPPLY PIPING MUST INCLUDE A DRIP LEG TO ELIMINATE THE POSSIBILITY OF CONTAMINANTS ENTERING THE GAS TRAIN. ADHERE STRICTLY TO LOCAL AND NATIONAL CODES.

GAS SUPPLY LINE SIZING

The Mendota Gas Insert comes equipped with a 3/8" N.P.T. [1.0 cm] inlet on the main gas valve. Gas supply piping may enter the cabinet from either the left or right side.

The proper gas line diameter must be selected to run from the supply regulator to the Insert. Refer to the following table for proper gas pipe diameters.

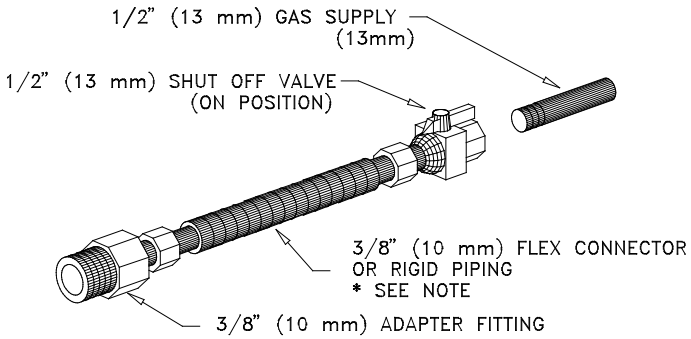
PIPE LENGTH [FEET]	**SCHEDULE 40 PIPE INSIDE DIA.**		**TUBING, TYPE L OUTSIDE DIA.**	
	NAT.	*L.P.*	*NAT.*	*L.P.*
0-10	1/2" [1.3 cm]	3/8" [1.0 cm]	1/2" [1.3 cm]	3/8" [1.0 cm]
10-40	1/2" [1.3 cm]	1/2" [1.3 cm]	5/8" [1.6 cm]	1/2" [1.3 cm]
40-100	1/2" [1.3 cm]	1/2" [1.3 cm]	3/4" [2.0 cm]	1/2" [1.3 cm]
100-150	3/4" [2.0 cm]	1/2" [1.3 cm]	7/8" [2.3 cm]	5/8" [1.6 cm]
150-200	3/4" [2.0 cm]	1/2" [1.3 cm]	7/8" [2.3 cm]	3/4" [2.0 cm]
NOTE: *Some areas allow copper tubing or galvanized pipe - check with local approval agencies and codes <u>NEVER</u> use plastic pipe.*				

<u>GAS PRESSURE CHECKING REQUIREMENTS</u>

A pressure tap for checking gas pressure is located on the main gas valve. A qualified installer should use this fitting for setting the correct gas pressure during initial installation. [See Gas Pressure Chart Pg. 20].

If supply gas pressures exceed 1/2 PSIG [3.5KPA], the appliance must be isolated from its supply with an approved manual shut-off cock. This manual shut-off cock must be closed during any supply line pressure testing. Check with your gas supplier or plumber.

If the factory-built fireplace has no gas access hole(s) provided, an access hole 1.5" or less may be drilled through the lower sides or bottom of the firebox in a proper workmanlike manner. This access hole must be plugged with non-combustible insulation after gas supply line has been installed.



SUGGESTED PIPING CONFIGURATION
(SUPPLIED BY MANUFACTURER)

NOTE: DO NOT DAMAGE OR KINK THE FLEX CONNECTOR
CHECK FOR GAS LEAKS WITH SOAP AND WATER SOLUTION.

* NOTE: 3/8" (10 mm) FLEX OR RIGID PIPING MAY BE USED TO CONNECT GAS SUPPLY TO UNIT DEPENDING ON STATE AND LOCAL CODES.

NOTE: BE SURE TO INSTALL FLEX GAS HOSE WITH BRASS-TO-BRASS FITTINGS TO PREVENT LEAKS AT CONNECTION.

GAS PRESSURE REQUIREMENTS

One major cause of operating problems with gas appliances can be improper gas pressure!

Such problems as changes in flame color or configuration, gas pilot or burner outages, intermittent operation, changes in heat output, excessive burner noise, etc. are nearly always the result of changes in gas pressure or improper gas pressure at the time of the installation. The most important item to check during the installation and the first thing to check when problems occur is gas pressure!

Gas supplies normally enter a residence at 1/2 PSI (13" - 15" W.C.) (3. KPA). A regulator is then placed inside the residence, which drops this pressure to 7" W.C. (1.8 KPA) (Nat. Gas). This "inches to inches" regulator is of adequate capacity to service the gas appliances (such as dryer, furnace, etc.). If this regulator's capacity is not sufficient to add the Gas Fireplace, an additional "inches to inches" regulator must be installed for the Fireplace. EXCEPTION: Some codes allow 2-PSI (1.4KPA) supplies to enter the residence, in which case "pounds to inches" regulators are used.

The following table provides information on correct gas pressure requirements. Be sure your gas supplier or plumber carefully follows this table.

	DESIRED INLET PRESSURE	**MINIMUM INLET PRESSURE**	**MAXIMUM INLET PRESSURE**
NATURAL GAS	**7.0" W.C.** (1.75 kPa)	5.0" W.C. (1.12 kPa)	11" W.C. (2.61 kPa)
L.P. GAS	**12.0" W.C**. (2.99 kPa)	12" W.C. (2.99 kPa)	13.0" W.C. (3.24 kPa)

TURN GAS VALVE KNOB TO "HIGH" POSITION. GAS PRESSURES MAY VARY PLUS OR MINUS 5%.

*NOTE: FOR HIGH ALTITUDE (ABOVE 5.000 FEET) SOME VARIATIONS IN AIR SHUTTER SETTINGS MAY BE REQUIRED.

Manifold pressure must be taken at the MANIFOLD" tap and inlet pressure at the "SUPPLY" tap **with the burner operating** by a qualified installer.

GAS LEAK TEST REQUIREMENT: It is the responsibility of the installer/service person to assure that each and every gas connection and supply tubing that are a part of this fireplace are leak proof. The qualified/ certified individual connecting the gas supply line, performing pressure tests or performing any service to this fireplace is required to perform a THOROUGH LEAK TEST on ALL gas fittings that are a part of this appliance or the gas supply line connection using soap-water solution or a calibrated combustible gas detector. Failure to perform this leak test may lead to a house fire and/or an explosion. Mendota is not responsible for any damages due to an Installer's failure to conduct a leak test and verify that all connections and supply lines are leak proof.

WARNING: Do not operate appliances with glass front removed, cracked, or broken. Replacement of glass should be done a licensed or qualified service person.

Note: Consult the local or national installation code(s) to assure that adequate combustion and ventilation air is available.

HIGH ALTITUDE INSTALLATIONS

For installations from 610-1370 meters (2000-4500 ft.) the orifice sizes (DMS) for natural gas is #43 and for propane gas is #54. See data plate for additional information. For high altitude installations consult the local gas distributor or the authority having jurisdiction for proper rating methods. If the installer must convert the unit to adjust for varying altitudes, the information sticker must be filled out by the installer and adhered to the appliance at the time of conversion.

«Cet appareil est equipé pour des altitudes compries entre 0 et 2000 pieds (0-610 m) seulement»

This appliance has been converted for use at an altitude of _____
Orifice size _____ Manifold Pressure _____
Input (Btu/h)_____ Fuel Type _____
Date of conversion _____ Converted by _____
«Cet appreeil a été converti au ____
Injecteur _____
Pression à la tubulure d'alimentation _____
Déoit calorifique _____»

INSTALLATION CHECK OFF LIST

The following check list must be completed prior to initial lighting of the Fireplace Insert, or manufacturer's warranty and liabilities will be voided:

- ❑ Venting system must be installed by a Mendota approved person according to Figure 3, Pg. 14 with clamps securely in place and all joints leak proof.
- ❑ Electrical supply and gas supply must be properly installed and must conform to National and Local Codes.
- ❑ Check that correct fuel supply is connected to appliance. Check correct gas pressure, correct size gas lines and for gas leaks on all gas supply connectors and this gas insert's gas valve train connectors.
- ❑ Proper clearances to combustibles must be maintained.
- ❑ **LEAK TEST REQUIREMENT**: Vibration during shipping and transit of this appliance may cause some gas connections to loosen. All gas train connections in this appliance, including field installed supply line fittings and all factory installed gas train connections between the gas valve and the burner orifice(s) and pilot light, must be leak tested prior to first firing using soap and water solution or a calibrated Combustible Gas Detector. All leak tests are to be performed by a qualified installer. It is the responsibility of the installer to verify that all connections are sealed properly and leak-proof.

LIGHTING CHECK OFF LIST

Be sure to check these items before final operation of the Fireplace Insert

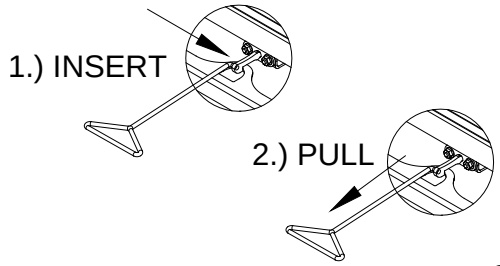
- ❑ All items on "Installation Check Off List" must be completed.
- ❑ Install batteries in Remote Control Transmitter and Receiver.
- ❑ Carefully follow all lighting and burner media installation instructions. Make certain that burner lights immediately and lights across entire burner.
- ❑ DO NOT proceed with operation unless burner cycles "on/off" without delays and the flame is "stable" and not "lifting" off burner.
- ❑ Caution: If pilot goes out be sure to wait a minimum of 5 minutes before relighting.

DOOR REMOVAL AND REPLACEMENT

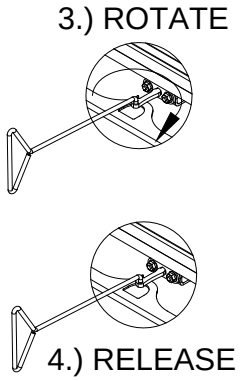
CAUTION: Do not operate the appliance with glass removed, cracked or broken. Replacement of the glass should be done by a licensed or qualified service person. Glass latch tool #HA-57-00743 is supplied with the unit.

To Unlatch Glass Frame Latches:

1. Insert Glass Latch Tool into hole in latch (two latches exist at top of glass frame).
2. Pull Glass Latch Tool outward about 3/8".
3. Rotate Glass Latch Tool 90 degrees.
4. Release Glass Latch Tool.
5. Remove Glass Latch Tool.



To Latch Glass Frame Latches, reverse steps 5 to 1, above.

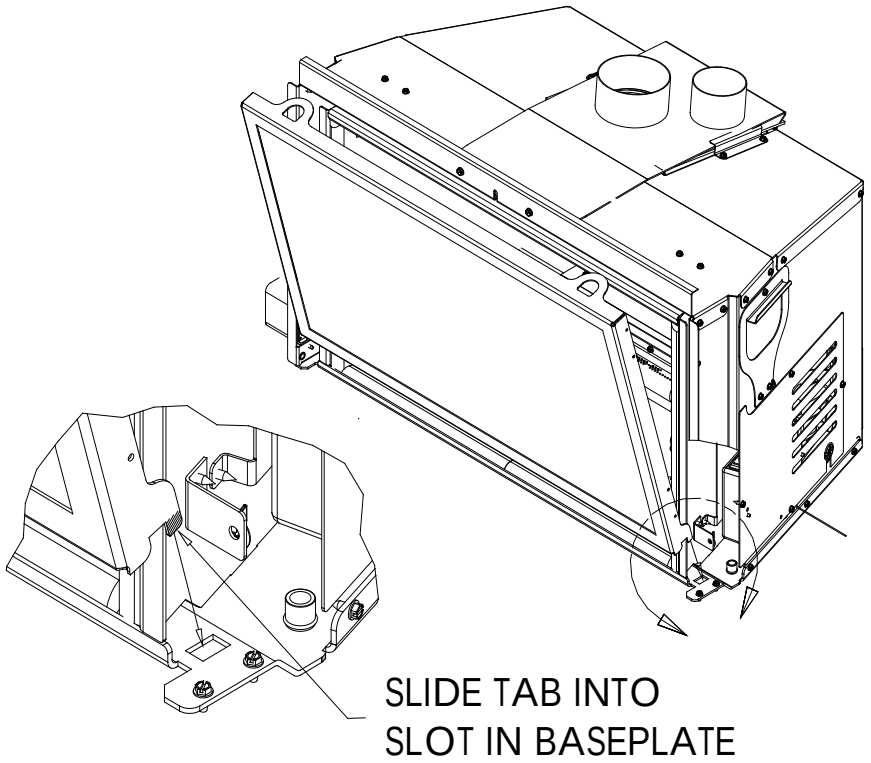


To Remove Glass Frame:

1. Rotate top edge of freed glass frame outward about 15 degrees.
2. Lift Glass Frame Up and Out.

To Install Glass Frame:

1. Align and insert tabs in side flanges of Glass Frame into Slots into the slot in the base plate.
2. Rotate Glass Frame upward until vertical.
3. Latch Glass in place per instructions above.



FV33-M BURNER MEDIA INSTALLATION INSTRUCTIONS

WARNING: Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury." AVERTISSEMENT. Risque de dommages ou de blessures si les pièces ne sont pas installées conformément à ces schémas et ou si des pièces autres que celles spécifiquement approuvées avec cet appareil sont utilisées.

Two media choices are available directly from Mendota for use on the FV41-M model. Select one media and purchase separately.

Media Choices:

1. Clear or Black Glossy Glass Media, 1/2" diameter, 5 lbs bag
2. Natural Rocks Fiber Media, 1"-2-1/2" diameter mixture, 60 pieces in random colors
3. Other media options may be available. Contact your Mendota dealer.

How to install burner media properly:

1. Spread media on burner's top surface only. Do not block air slots that are in front, behind or on sides of burner.
2. Burner Media shall be only 1-layer thick and loosely spread over burner surface. DO NOT pack tightly. Allow 1/8" space between media pieces. Save extra media that is not used.

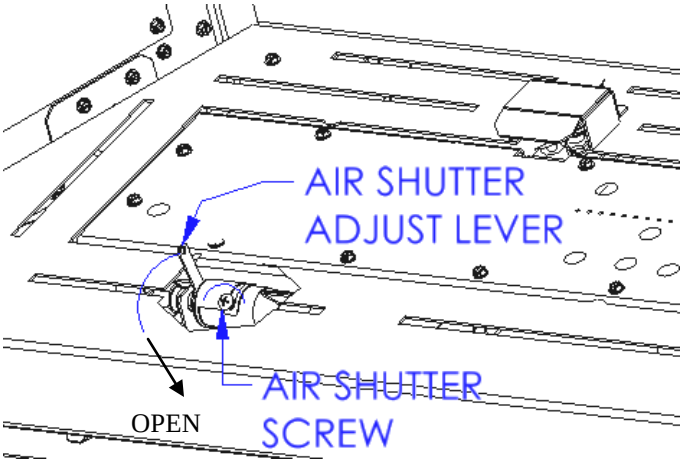
FLAME APPEARANCE ADJUSTMENT

AIR SHUTTER ADJUSTMENTS

Be sure burner and burner media are properly. For Natural Gas applications, leave air shutter closed fully. For LPG applications, start with air shutter open ¼" to 3/8". After burner has been properly installed and operated for 20 minutes, small additional adjustments to the air shutter may be necessary for final flame appearance. These small shutter adjustments can be made by following these procedures:

NOTE: Start with the burner air shutter set at 0" to 1/8" open for NG and ¼" to 3/8" open for LPG. Opening the shutter will yield shorter and blue(er) flames and closing the shutter will yield taller and yellow(er) flames.

The burner air shutter adjustment lever is located inside the firebox on the left side of center.



1. Install burner media and glass frame and burn unit for 20 minutes minimum.
2. If flame is too "blue" close Air Shutters until flames turn yellow.
3. If flames are too "orange" or are causing sooting, open Air Shutters until flames begin to turn blue. NOTE: If sooting does not stop, turn off fireplace & call a Mendota Service Person.
   IMPORTANT: Try each new shutter setting for approx. 20 minutes before making additional changes.

NOTE: Changes in burner flame can be made by re-arranging the burner media as well. Make certain burner media is loosely spread over burner in a SINGLE layer only. DO NOT pack media tightly.

4. For NG applications, start with the burner air shutter closed to 1/8" open. For high altitude applications, air shutter may need to be open further.
5. For LPG applications, start with the burner air shutter open ¼" to 3/8". For high altitude applications, air shutter may need to be opened further.

BEFORE YOU BEGIN

Read this entire manual before you use your new fireplace (especially the section "Safety Precautions" on page 7). Failure to follow the instructions may result in property damage, bodily injury, or even death.

Remote Control Transmitter Functions

NOTE: The Receiver will "beep" once every time a Remote Transmitter Key is pressed, signaling that the command has been received.

Identify the four function buttons on the Remote Transmitter:

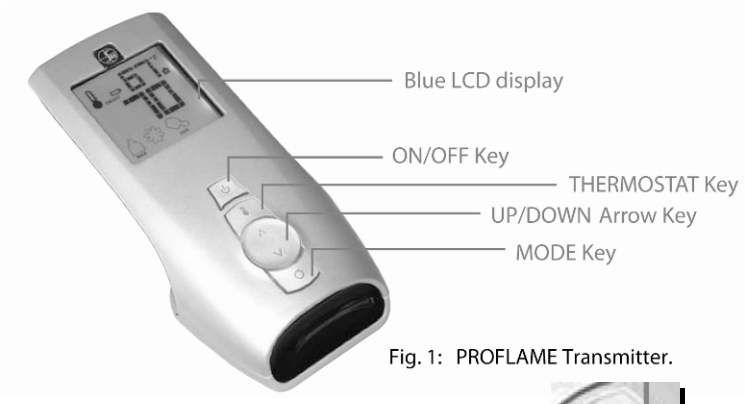
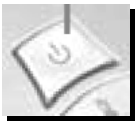


Fig. 1: PROFLAME Transmitter.

1. **ON/OFF KEY**: This button turns the system ON or OFF. When this button is pressed and the system is OFF, the pilot light will stay ON if the "Standing Pilot Switch" is in the ON position.

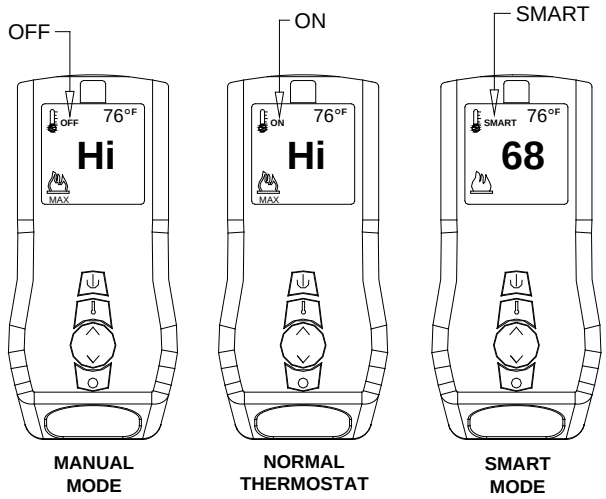


2. **THERMOSTAT KEY**: This button, when pressed after the ON/OFF KEY is pressed and the system is ON, will allow the selection of three modes: Manual Operation, Normal Thermostat and Smart Thermostat.

   a. **Manual Mode**: In this mode, the room temperature is ignored and the fireplace can be turned ON indefinitely. The room temperature rise has no effect on this mode. All other functions such as fan speed control, flame height control, secondary burner On/OFF control and Accent Light ON/OFF controls will be manually controllable.

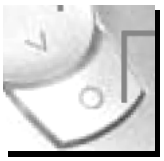
   b. **Normal Thermostat**: In this mode, the fireplace will stay functioning until the room temperature increases 1°F above the Set Point Temperature. To increase the Set Point Temperature, Press the UP button until the desired temperature is displayed in the SET POINT TEMPERATURE window. The fan will turn on approximately 5 minutes after fireplace startup and will turn off approximately 12-1/2 minutes after the flames turn off, in this mode. The flame height can be adjusted while the fireplace is functioning.

   c. **Smart Thermostat**: In this mode Manual flame height adjustment is not allowed. The Smart Thermostat function adjusts the flame height in accordance to the difference between the set point temperature and the actual room temperature. As the room temperature gets closer to the set point temperature, the Smart Function automatically modulates the flame down.



3. **UP/DOWN KEY:** This key is used to increase or decrease the Set Point Temperatures, Flame Height and Fan Speed and to toggle between Accent Light ON/OFF and Secondary Burner ON/OFF**.**

4. **MODE SELECTION KEY**: This key is used to toggle between the various function icons : Flame Height, Fan Speed, Accent Light and Secondary Burner.



REMOTE TRANSMITTER OPERATING INSTRUCTIONS

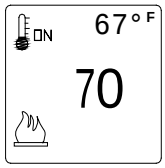
TO TURN ON THE APPLIANCE:

1. Press the ON/OFF button. The transmitter display will show all active icons on the screen.
2. Select the Thermostat Mode by pressing the Thermostat Key: OFF (meaning Manual Mode), ON (meaning normal Thermostat) or Smart (meaning Smart Mode).
   a. In OFF (Manual Mode), the appliance will ignite and start on HI.
   b. In ON (Normal Thermostat Mode), the appliance will only ignite if the Set Temperature is greater than the Room Temperature.
   c. In SMART (Smart Mode), the appliance will only ignite if the Set Temperature is greater than the Room Temperature.

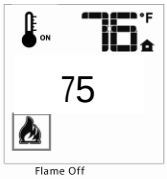
TO TURN OFF THE APPLIANCE, press the ON/OFF button.

MODE KEY: Pressing the MODE KEY toggles between the various available functions: Temperature Setting, Flame Height Setting and Secondary Burner On/Off.

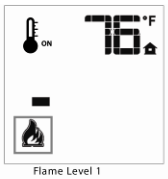
Temperature Setting: Press the Mode Key until the large Set Temperature is displayed. Pressing the Up or Down button once in this mode will increase or decrease the set temperature. Note that the large temperature display in the center of the screen is the Set Temperature. The smaller temperature display in the top right corner is the room temperature that the hand held transmitter has sensed.

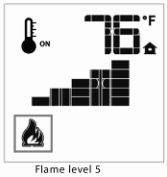


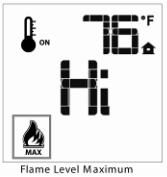
Flame Height: 6 flame height Levels are available. While the Flame Height Icon is displayed, pressing the Up or Down button once will increase or decrease the flame height by 1 of 6 increments. If the flame height is at Level 1 and the Down button is pressed, all burners will turn OFF. If in IPI mode, the pilot light will also extinguish. If in Standing Pilot Mode, the pilot light will remain ON. Note: If in SMART mode, the flame height function is not available for manual adjustment. In SMART mode, the flame height regulates automatically.



Flame Off


Flame Level 1


Flame level 5

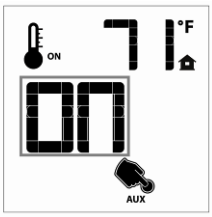


Flame Level Maximum

Fan Speed Control: This function is NOT available on the FV33-M model.

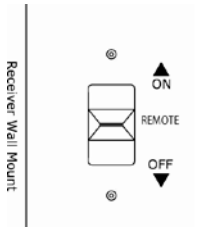
Aux (Accent-Light): This function controls the Mendota Accent Light function.

Pressing the UP key in this mode will TURN ON the Accent Light and Pressing the DOWN key will TURN OFF the Accent Light. A single "beep" will confirm reception of the command. Note: The Accent Light Dimmer control is on the right face or right edge of the surround. Turn the Dimmer Control Knob to dim or brighten the Accent Light. Once you set your desired brightness level, you may use the AUX function to turn the Accent Light On or Off at that preset level.



Secondary Burner: This function is NOT available on the FV33-M model. Scroll past this icon.

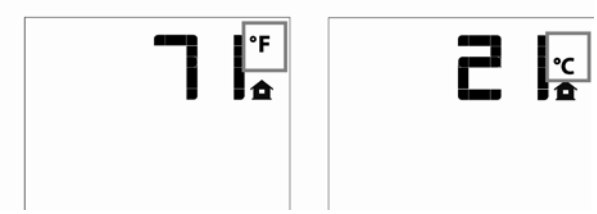
MANUAL BYPASS OF THE REMOTE SYSTEM



If the remote transmitter is misplaced or lost, the appliance can be turned on manually by sliding the three position slider switch on the receiver to the ON position. This will bypass the remote control feature of the system and the appliance's main burner will turn on. The fan will run at its maximum speed and the Accent Light may turn on.

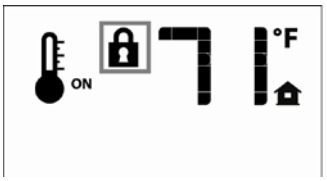
To turn off the appliance, if the remote control is misplaced or lost, slide the three position slider switch on the receiver to the OFF Position.

TEMPERATURE INDICATOR (^{o}F or ^{o}C)



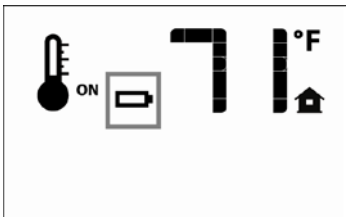
1. Press the ON/OFF Key and Turn Off the Fireplace.
2. Simultaneously, Press both the MODE Key and the Thermostat Key.
3. Look at the LCD display to verify that your desired indicator (^{o}F or ^{o}C) is being displayed. If not, repeat step 2.

KEY LOCK FUNCTION



To prevent unsupervised children from operating the fireplace, a KEY LOCK function is provided with this remote control system. To activate the KEY LOCK function, simultaneously press the "MODE KEY" and the "UP KEY". To deactivate the KEY LOCK function, simultaneously press the "MODE KEY" and the "UP KEY".
During KEY LOCK mode, none of the Keys will function. You must DEACTIVATE the system before you can use the Remote Transmitter.

LOW BATTERY POWER DETECTION



1. **Transmitter Batteries**: The life span of the remote control transmitter batteries depends on various factors: quality of the batteries used, the number of ignitions of the appliance, the number of changes to the room thermostat set point, etc. When the Transmitter batteries are low, a Battery Icon will appear on the LCD display of the Transmitter before all battery power is lost. When the batteries are replaced, this icon will disappear.
2. **Receiver Batteries**: The life span of the receiver batteries depend on the quality of the batteries used and how long the batteries have been installed in the receiver. These batteries are only utilized during power outages. Replace these batteries every heating season even if you have not experienced any power outages. Batteries drain slowly even when not in use. This is a normal characteristic of all batteries.

OPERATING DURING POWER OUTAGES

This electronic ignition system utilizes the supplied 110VAC power when it is available for all functions of this system. If the AC power is interrupted during a power outage, this system utilizes the batteries (installed in the Receiver) as back-up batteries. During the power outage, the appliance's burners will function. In addition, Flame Height adjustment and Secondary Burner ON/OFF functions will be available. The Fan and Accent Light, which are wholly dependent on 110VAC power, will not function.

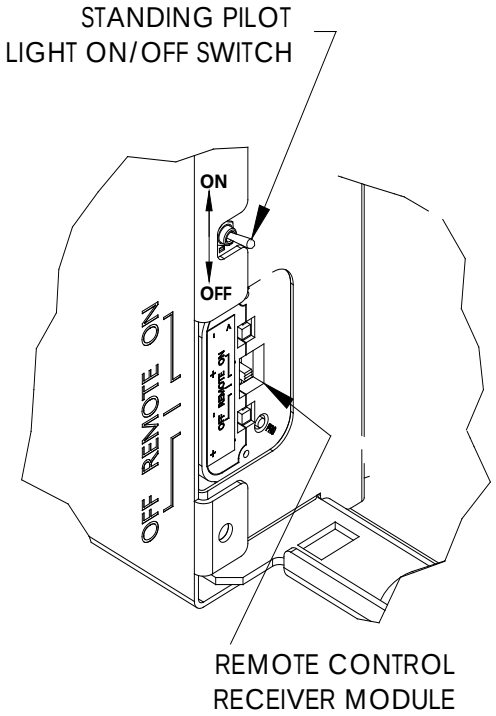
This appliance is designed and tested to be operated during power outages.

"FIRST TIME" PILOT LIGHTING INSTRUCTIONS

IMPORTANT: Be sure all items on "INSTALLATION CHECK OFF LIST" in the Installation Manual have been completed!

CAUTION: If the pilot goes out, be sure to wait a minimum of five minutes before attempting to relight the pilot.

1. Make certain that any manual gas supply shut-off valves located upstream of fireplace are open and the receiver and the remote control transmitter are in the "OFF" position. Make certain that the receiver harness is connected to the receiver properly.
2. Make certain that 120VAC power cord is connected to an electrical outlet.
3. Insert Batteries in the Receiver (Receiver batteries are optional if AC power is connected) and the Remote Transmitter. Note the polarity of batteries and insert as indicated on the battery compartment covers.
4. For "First Time Lighting", Remove the Glass Door. This is required to purge the gas line of air and to inspect the pilot lighting spark.
5. Slide the receiver switch to "REMOTE". Locate the "Standing Pilot ON/OFF Switch". See Figure 1. Toggle "Standing Pilot ON/OFF Switch" to "ON". You will hear a series of clicks and after a few seconds, you will hear sparking at the pilot spark electrode.
6. Allow adequate time for the air in the gas-line to purge. The control system will stop sparking after 30 seconds if the pilot light



does not light. After a 30 second delay the control system will start sparking again for 30 seconds more. If the pilot light does not light after the third 30 second spark event, the system will enter "Lock-out" mode. To unlock from "Lock-out" mode, slide Receiver Switch to "OFF", wait 30 seconds and slide back to "Remote". Repeat this sequence until the pilot flame lights and the pilot is burning steadily.

LOCK OUT MODE: If the pilot light does not light after the third 30 second spark event, the system will enter "Lock-out" mode. To unlock from "Lock-out" mode, slide Receiver Switch to "OFF", toggle Standing Pilot Light On/Off Switch to OFF, wait 30 seconds and slide Receiver Switch back to "Remote".

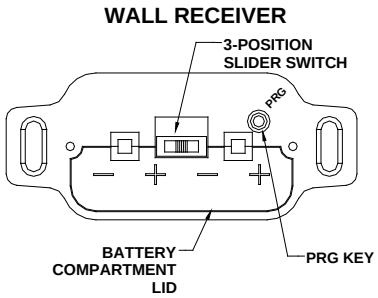
7. Once the pilot flame is lit and well-established, close glass door. **WARNING: NEVER IGNITE MAIN BURNERS WITH GLASS DOOR REMOVED OR OPEN. Doing so will lead to damage to pilot flame sensor and spark electrode wire leads.**
8. Slide switch on Receiver to "ON". All burners should ignite and run at "high-fire". Slide Receiver switch to REMOTE after 15 seconds. Burner Flames will extinguish.
9. Perform gas inlet and outlet pressure tests and leak tests on field installed gas fittings and factory installed fittings in the gas valve compartment, at this time. Note: Burners must be ON to check outlet pressures and to leak test gas train fittings upstream of main gas valve.

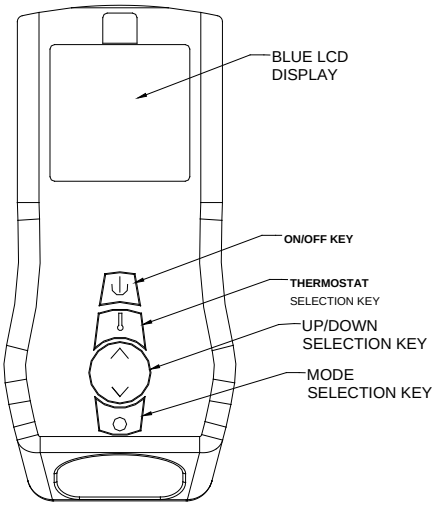
INITIALIZING THE REMOTE CONTROL SYSTEM

(Synchronizing Receiver and Transmitter)

1. Place 3-position slider switch in Receiver in the "Remote" position.
2. Locate "PRG" key on Receiver Face. Use the tip of a pen/pencil or a wire clip to push the PRG button. The receiver will beep 3 times indicating that it is ready to synchronize with a Remote Transmitter.
3. Push the "ON" key on the Remote Transmitter. The receiver will beep 4 times to indicate that the Transmitter's command is accepted and sets to the particular code of that Transmitter. The system is now initialized.

NOTE: Use this Synchronizing procedure every time the batteries are replaced in the Receiver or the Transmitter.





REMOTE TRANSMITTER

IPI/STANDING PILOT SYSTEM INFORMATION

	REMOTE CONTROL	RECEIVER
Supply voltage	4.5V (three 1.5V AAA batteries)	6.0V (four 1.5V AA batteries)
Ambient temperature ratings	32 – 122 ^{o}F (0 – 50 ^{o}C)	32 – 140 ^{o}F (0 – 60 ^{o}C)
Radio Frequency	315 MHz	315 MHz

ATTENTION!

The transmitter and receiver are RADIO FREQUENCY DEVICES. Placing the receiver in or near metal may severely reduce the signal range.

- Turn off the main gas supply of the appliance during installation or maintenance of the receiver.
- Place the receiver's 3-position slider switch in the "off" position during installation or maintenance.
- Turn "off" main gas supply to the appliance prior to removing or reinserting the batteries in the receiver.
- During appliance installation/maintenance or in case of remote control malfunction, turn off electrical supply to this appliance and remove the batteries from the receiver battery compartment. Contact technical service.

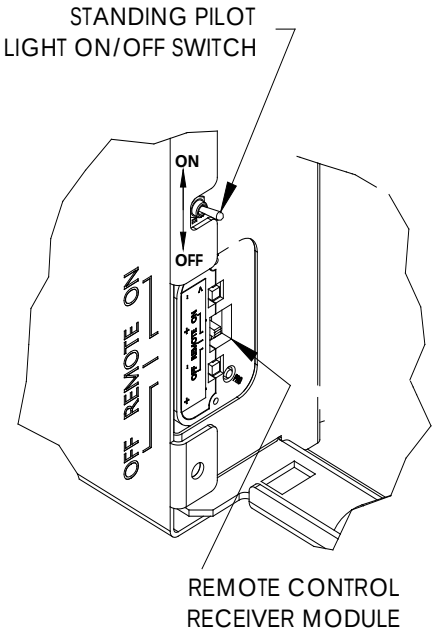
Intermittent Pilot Light and Standing Pilot Light Features

This gas fireplace is equipped with an electronic ignition System that first lights a pilot light then uses the pilot light to ignite the main burners. The pilot light can be set in the "Standing Pilot" mode to allow the pilot light to remain on indefinitely by toggling the "Standing Pilot Switch" to the ON position. If the "Standing Pilot Switch" is toggled to the OFF position, the pilot light will only light and remain ON while the main fireplace burners are operating.

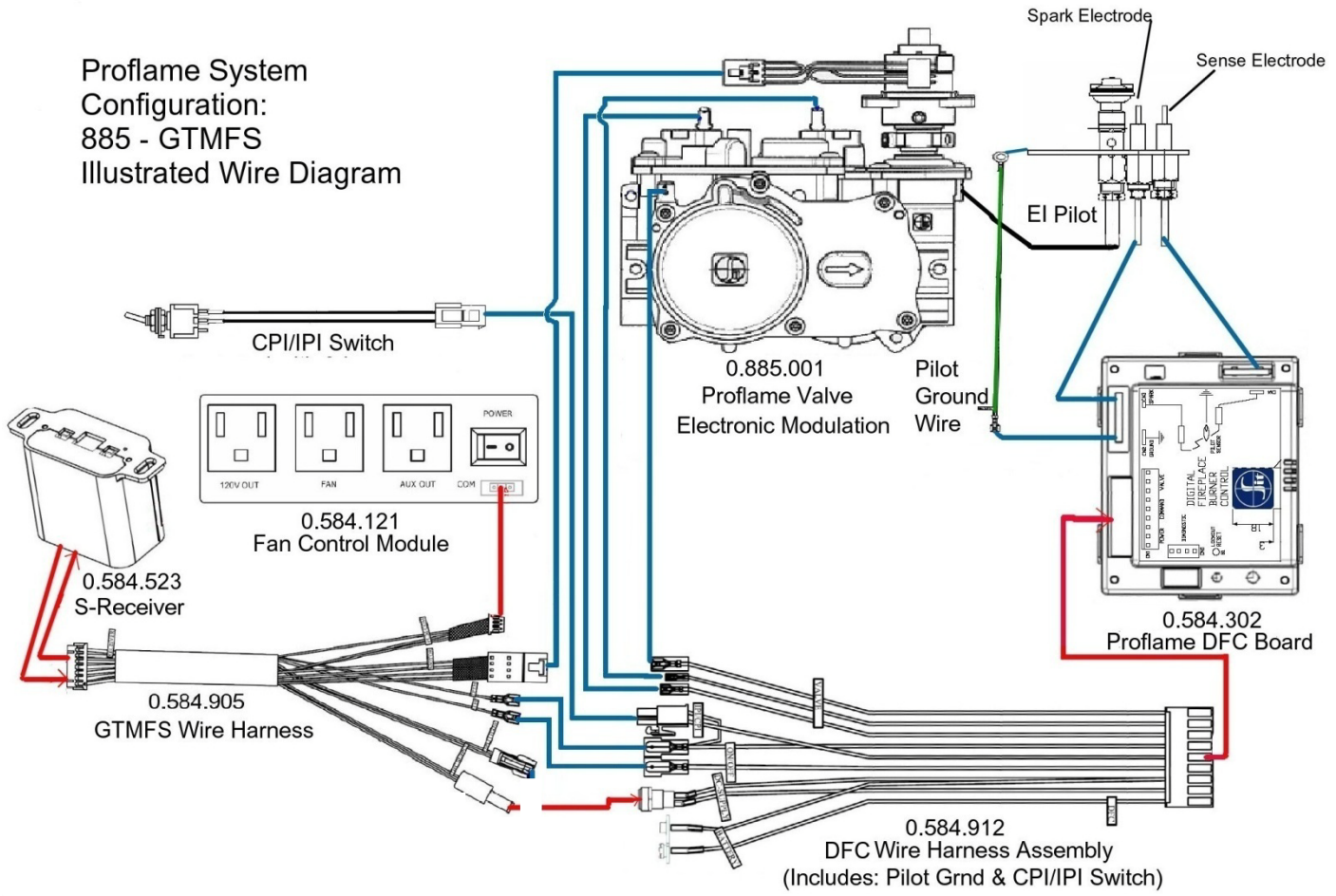
IPI Mode: This mode turns the pilot light "OFF" when the fireplace is not functioning and only lights the pilot light automatically when a call for heat is made by the remote control.

Standing Pilot Mode: If the "Standing Pilot Switch" is toggled to ON, the pilot light will ignite and remain ON as long as the "Standing Pilot Light Switch" is in the ON position.

NOTE: **Mendota Fireplaces recommends that the Standing Pilot Mode be used during the winter months when external temperatures fall below 50^{o}F**. This will keep the fireplace chimney heated for proper updraft during burner ignition and it will also eliminate excessive condensation of exhaust vapors on the door glass. Further, leaving the fireplace in the Standing Pilot Mode will keep the fireplace body warm and eliminate cold drafts and heat loss to the cold air that is trapped inside the firebox.



FV33-M GAS IGNITION SYSTEM WIRING DIAGRAM



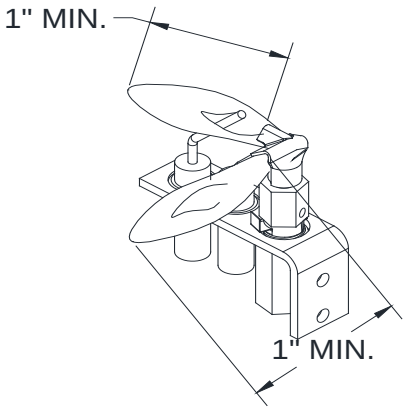
The appliance must be electrically connected and grounded in accordance with local codes or, in the absence of local codes, with the current NFPA 70-National Electric Code or CSA C22.1-Canadian Electrical Code.

Caution: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation" and "Verify proper operation after servicing."

Attention: Au moment de l'entretien des commandes, étiquetez tous les fils avant le débranchement. Des erreurs de c>blage peuvent entraTun fonctionnement inadéquat et dangereux." "S'assurer que l'appareil fonctionne adéquatement une fois l'entretien terminé.

MAINTENANCE

1. **ANNUAL MAINTENANCE OF MENDOTA UNITS IS REQUIRED**. The following procedures must be performed each year by a Mendota approved service person. NOTE: Any adjustments to burner, pilot or burner media must be done by a qualified Mendota service person.

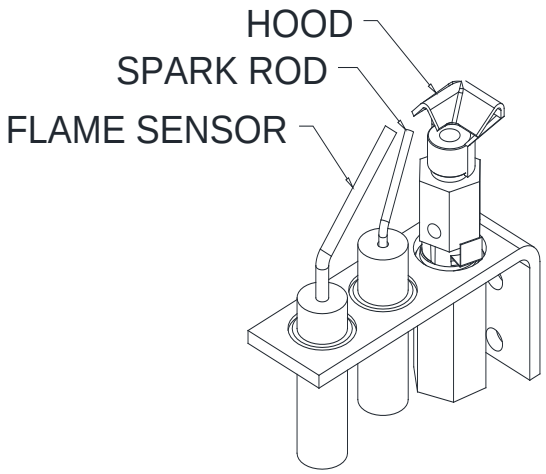


   A. Clean all lint and dust build-up around the control. Inspect the condition of any wiring under the burner for melting or damage.
   B. Remove media and clean away any foreign matter (lint, Carbon, etc.) on the burner and pilot light body and base. Be sure the burner ports are "open". Clean the pilot for any Carbon deposits. Be sure logs are re-installed per instructions in this manual.
   C. Check condition of glass door gasket, gasket must seal tightly over firebox, replace if necessary.
   D. Periodically check to verify that the vent system and vent cap are open and free of blockage.
   E. Before re-installing glass, have qualified service person check the operation of the pilot and cycle the burner per LIGHTING INSTRUCTIONS. Be sure all items in LIGHTING and INSTALLATION "check off" lists are completed.

4. The viewing glass should be cleaned periodically**.** Exterior glass surface may be cleaned with cleaner as desired. To clean Interior glass surface, use Kel Kem "polish plus" (part # 65-06-00455) or comparable product. Do not use oven cleaner or abrasive cleaners to clean glass. Do not clean when glass is hot.

5. Periodic visual check of pilot flames is required. Pilot Flame must overlap Flame Sensor and burner ignition ports at all times.
6. Periodic visual check of main burner's flames is required.

BURNER FLAMES GENERAL HEIGHTS REFERENCE DIAGRAM



This conversion kit shall be installed by a qualified service agency in accordance with the manufacturer's instructions and all applicable codes and requirements of the authority having jurisdiction. If the information in these instructions is not followed exactly, a fire, explosion or production of carbon monoxide may result causing property damage, personal injury or loss of life. The qualified service agency is responsible for the proper installation of this kit. The installation is not proper and complete until the operation of the converted appliance is checked as specified in the owner instructions supplied with the kit.

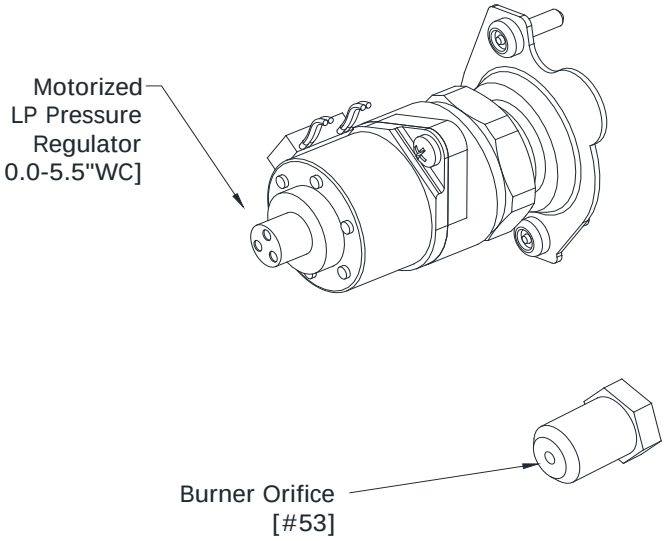
Cet équipement de conversion sera installé par une agence qualifiée de service conformément aux instructions du fabricant et toutes exigences et codes applicables de l'autorisés avoir la juridiction. Si l'information dans cette Instruction n'est pas suivie exactement, un feu, explosion ou production de protoxyde de carbone peut résulter le dommages causer de propriété, perte ou blessure personnelle de vie. L'agence qualifiée de service est esponsable de l'installation propre de cet équipement. L'installation n'est pas propre et complète jusqu'à l'opération de l'appareil converti est chèque suivant les critères établis dans les instructions de propriétaire provisionnées avec l'équipement.

NATURAL TO LP GAS CONVERSION INSTRUCTIONS

Kit # HA-82-00507 Mendota Model FV33-M

This conversion kit shall be installed by a qualified service agency in accordance with the manufacturer's instructions and all applicable codes and requirements of the authority having jurisdiction. If the information in these instructions is not followed exactly, a fire, explosion or production of carbon monoxide may result causing property damage, personal injury or loss of life. The qualified service agency is responsible for the proper installation of this kit. The installation is not proper and complete until the operation of the converted appliance is checked as specified in the owner instructions supplied with the kit.

Caution: The electrical supply to the fireplace must be turned off prior to performing the conversion. The gas supply must be shut off prior to disconnecting the electrical power.



ORIFICE SIZES REQUIREMENT:

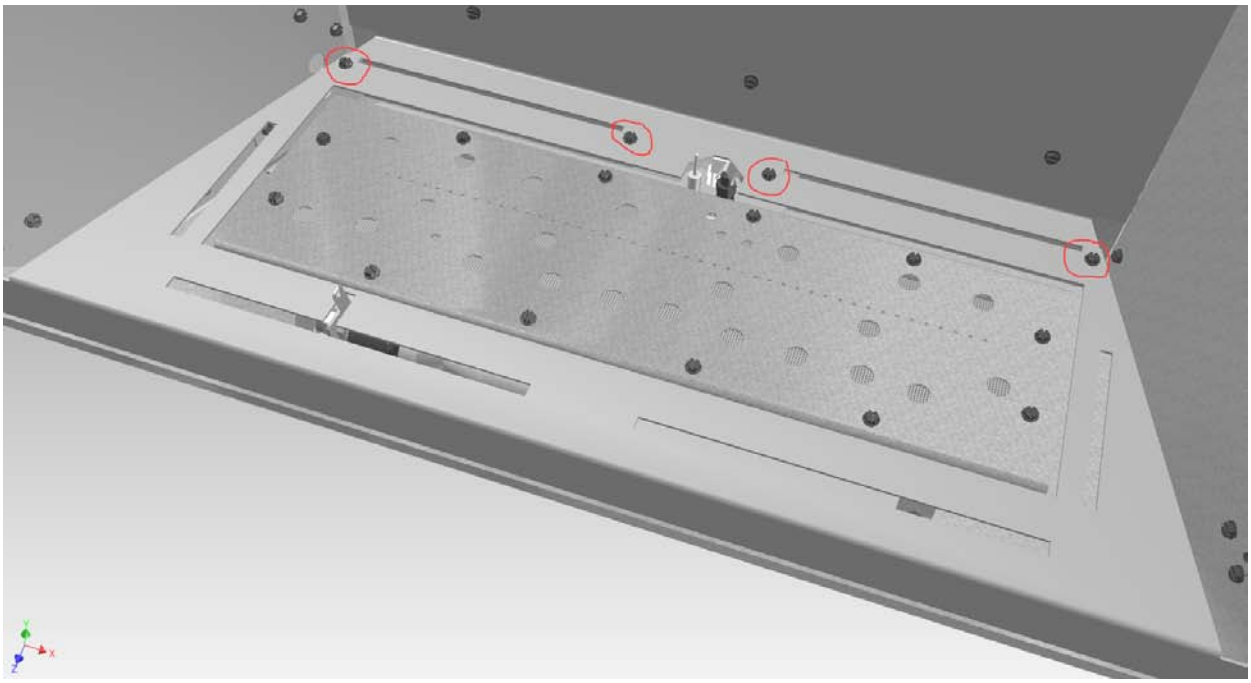
LP Conversion Kit # HA-82-00507 contains the following parts: One Motorized LP Pressure Regulator #907.012 and ONE Cap Orifices #65-14-00053(**drill #53")** and an L-shaped Torx wrench.

Recommended Procedure to Convert This Fireplace To Burn LPG

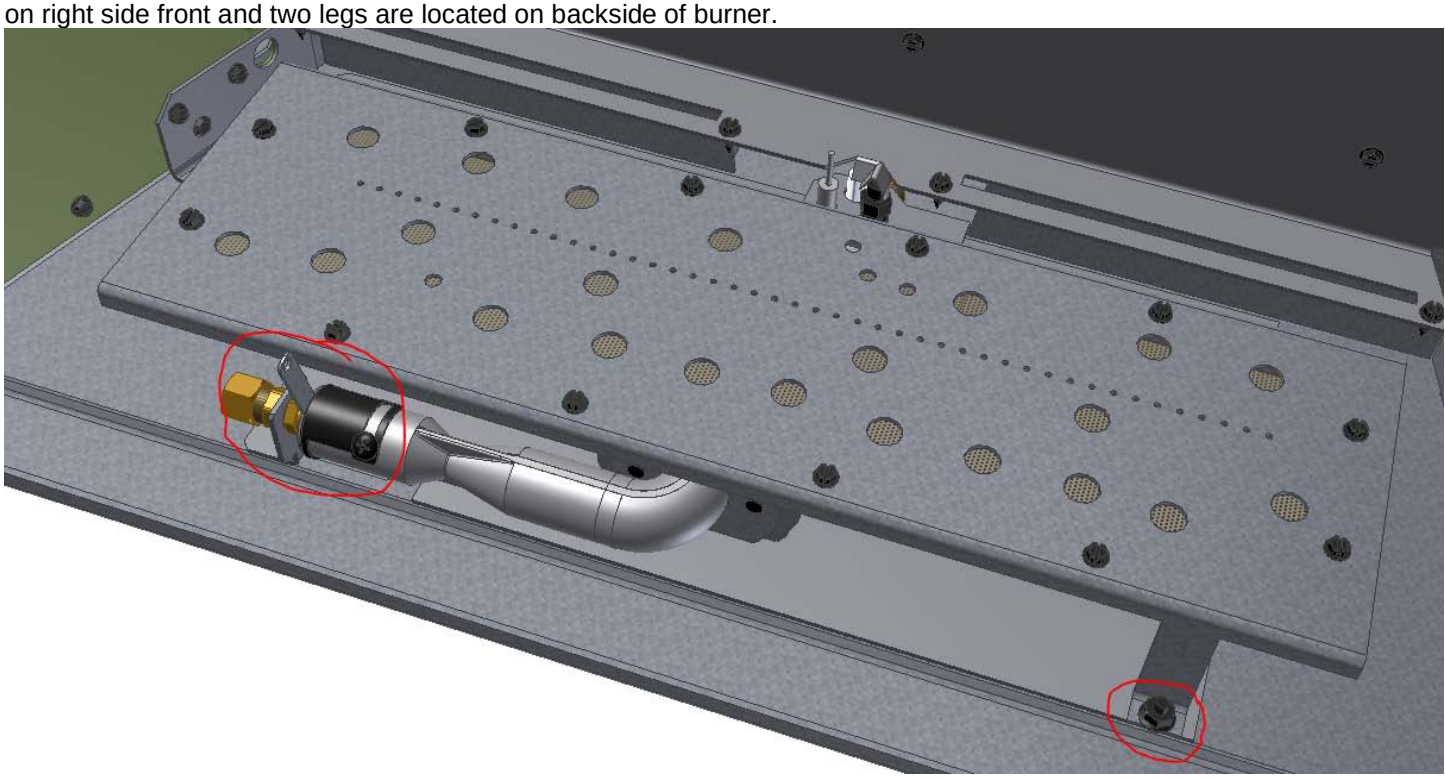
This Fireplace Insert arrives from the factory ready to burn Natural Gas. If you intend to burn LPG, it is highly recommended that you convert this fireplace and its Pressure Regulator and Burner Orifice prior to placing this fireplace in its fireplace cavity.

See diagrams, on this page, and follow these instructions to prepare this fireplace for conversion to LPG.

1. Turn off gas supply at the appliance service valve.
2. See diagrams on this page and identify the Pressure Regulator on the Valve Body.
3. Using a Torx T20 or a slotted screwdriver, remove 2 screws that secure the NG Pressure Regulator to the gas valve body and remove NG Pressure Regulator, see following page.
4. Install the new LP Pressure Regular onto the gas valve body in the same position and orientation as the NG Pressure Regulator you removed in Step 2, above. The LP Pressure Regulator can only be mounted in one position. Secure the LP Pressure Regulator in place. Tighten down.



5. Remove the Burner Airbox and Burner.
6. To remove Airbox, remove four screws along back edge of Airbox and lift Airbox out of firebox.
7. To remove Burner, loosen and remove three 3/8” hex nuts that hold burner legs to firebox floor. One leg is located on right side front and two legs are located on backside of burner.

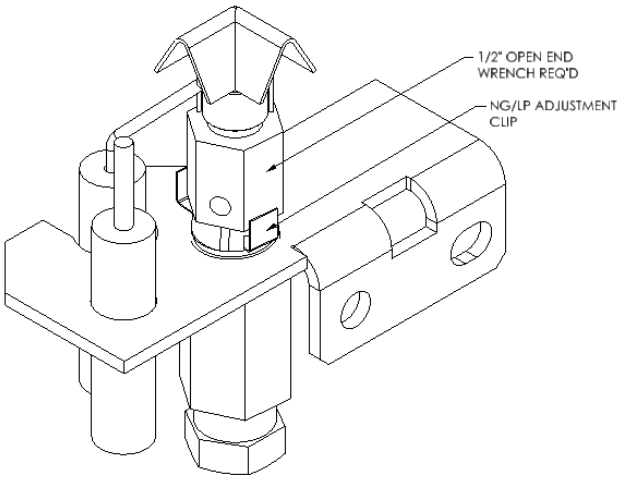


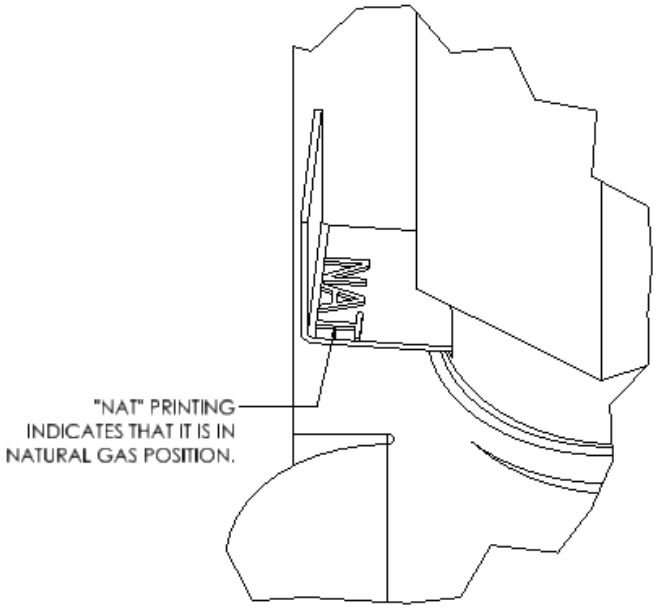
8. Locate and Identify the Burner Orifice Spud. The Orifice Spuds can be removed and installed using a ½” deep well socket and ratchet. WARNING: Make certain to Secure the Brass fitting and flex supply tube attached to the orifice in place using a 1/2" open end wrench before attempting to remove the burner orifice and also when installing and tightening the new LP orifice.
9. Install Burner Orifice #65-14-00053 (#53 drill) for the Main Burner. Tighten down securely.

10. Loosen Pilot Light's hex shape base using a ½" open end wrench. Rotate counter clock-wise ¼ turn to loosen.

11. Pilot arrives from the factory set for NG. Push NG/LP Adjustment Clip inward all the way to set it for LP. See detail view, below. If you see "NAT" printing on the Adjustment Clip, this indicates that the pilot is set to burn NG. Push Clip in so that "NAT" is not visible.

12. Tighten down Hex shaped base of pilot using a ½" open end wrench.





13. Before reinstalling the burner, loosen the screw that secures the rotary air shutter on the Front Burner. Rotate the air shutter open to ¼" minimum. For high altitude installations, open to 3/8" minimum.

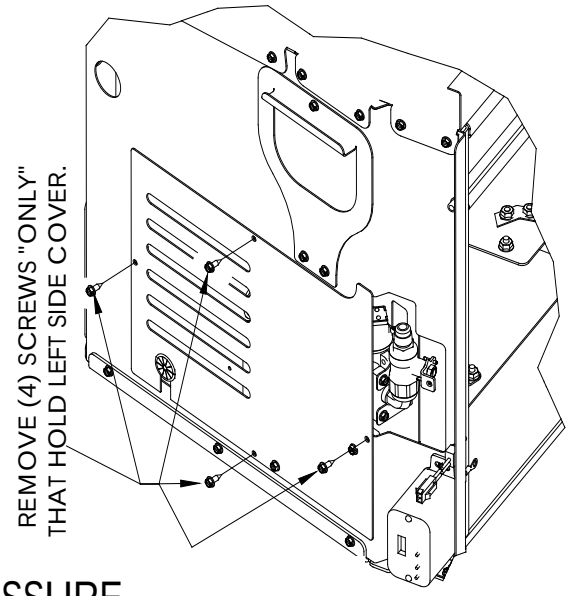
14. Install burner in its original location and position and secure down using 3/8" nuts you removed earlier.

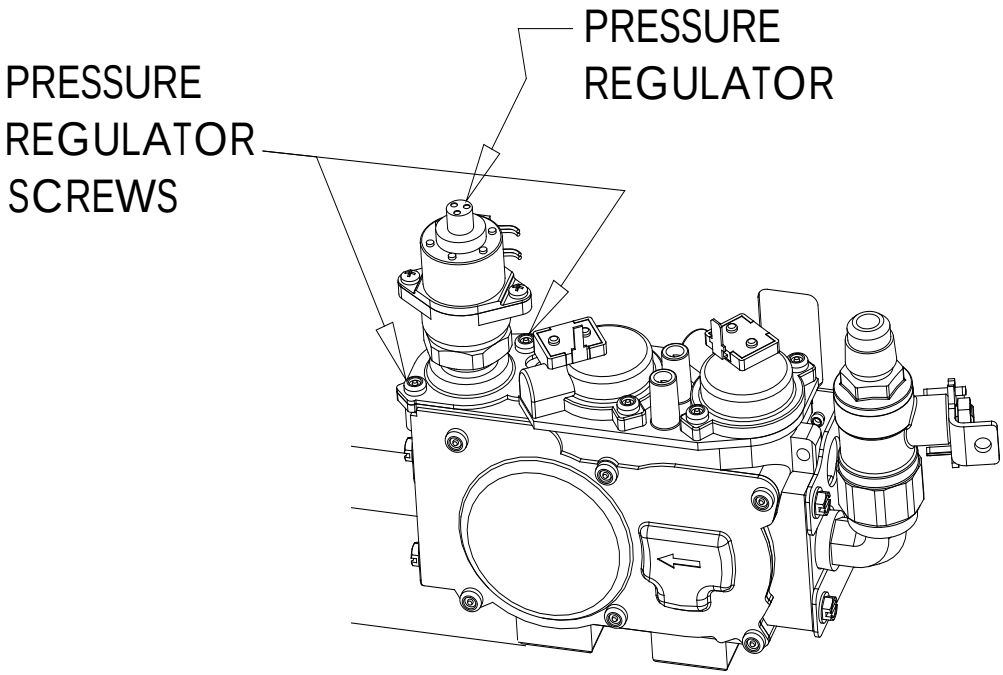
15. Make certain burner is running parallel to front face of unit positioned properly.

You must remove the left side Valve Access Panel to replace the pressure regulator.

16. Remove the left-side access panel mounted to the left outer skin and lay down gently without disconnecting any wires of internal components. WARNING: DO NOT FORCE. EXCESSIVE FORCE MAY DAMAGE INTERNAL WIRING COMPONENTS!
17. See diagrams on this page and identify the Pressure Regulator on the Valve Body.
18. Using a Torx T20 (supplied) or a slotted screwdriver, remove 2 screws that secure the NG Pressure Regulator to the gas valve body and remove NG Pressure Regulator, see following page for detailed instructions. Note: Be careful when removing or tightening the screw on the back-side of the pressure regulator. The screw location is difficult to access and care must be taken to ensure a proper seal when tightened.
19. Install the new LP Pressure Regular onto the gas valve body in the same position and orientation as the NG Pressure Regulator you removed in Step 2, above. The LP Pressure Regulator can only be mounted in one position. Secure the LP Pressure Regulator in place. Tighten down.

8.





LP PRESSURE REGULATOR CONVERSION INSTRUCTIONS

WARNING: Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury." AVERTISSEMENT. Risque de dommages ou de blessures si les pièces ne sont pas installées conformément à ces schémas et ou si des pièces autres que celles spécifiquement approuvées avec cet appareil sont utilisées.

WAR NING!
The installation of this conversion kit must only be undertaken by a qualified and certified gas appliance installer.

STEPPER MOTOR PRESSURE REG ULATOR CON VERSION KIT IN STALLATION OR REPLACEME NT IN STRUCTIO N S.

Verify that the following items are present in the package.

- Pressure regulator assembly (E)
- Two (2) screws (F)
- Identification label (G)
- Installation instructions (this document).

1 Shut off the gas supply to the valve and shut down the electric supply.

2 See Fig. 1. Using a Torx T20, or slotted screwdriver, remove and discard the two (2) pressure regulator mounting screws (A), pressure regulator tower (B), and the spring and diaphragm assembly (C), (If applicable).

3 Ensure the rubber gasket (D), which is prefitted as part of assembly (E), is properly positioned, see Fig. 2, otherwise fit the gasket as shown Fig. 2.

4 Install the new STEPPER MOTOR pressure regulator assembly, as shown in Fig. 3 and Fig. 4. Use the supplied screws (F), M4 x 0.7 threaded, length of thread L=(16 mm + 0 - 0.5 mm), steel material, resistance class 8.8 (see Fig. 5).

5 Manually thread the two conversion kit mounting screws into the valve body. Use a standard screwdriver or T20 Torx bit and tighten to the screws with a fixing torque of 25lb-in ± 5%.

IN THE EVENT THAT THE THREADS OF THE VALVE ARE STRIPPED OR DAMAGED, REPLACE THE VALVE.

6 Install the enclosed identification label (G) to the valve body where it can be easily seen.

7 Make STEPPER MOTOR and valve electrical connections, apply gas to system and relight appliance according to manufacturers instructions.

8 With the main burner "ON", test the new pressure regulator assembly for leaks using a soap solution.

9 Relight the main burner and verify proper burner ignition and operation.

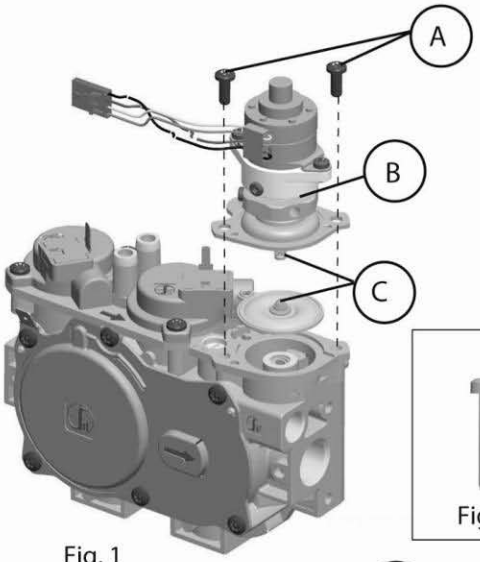


Fig. 1

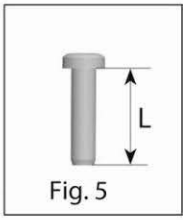


Fig. 5

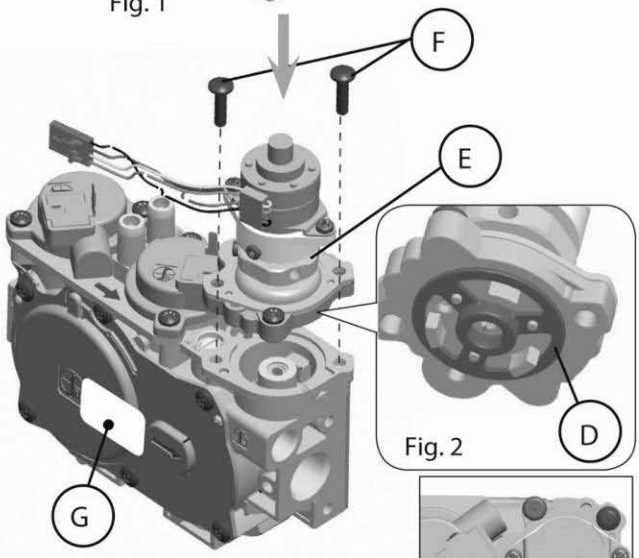


Fig. 2
Fig. 3

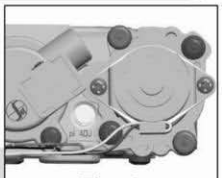


Fig. 4

WAR NING!
Installation should be carried out in a clean environment.

WAR NING!
This modulating conversion kit must ONLY be applied as part of a conversion kit supplied by the APPLIANCE MA NUFACTURER for the specific appliance, and type of gas, being converted.

WAR NING !
Correct operation of the system cannot be guaranteed if the conversion kit or valve has been dropped or has sustained a strong impact.

IN STALLER NOTICE. These instructions must be left with appliance.

LP GAS PRESSURE REQUIREMENTS

Inlet and manifold gas pressure checking taps are located on gas valve. These ports are only accessible from the outer left side of the fireplace. A qualified installer shall take pressure measurements at these ports to verify and set the correct gas pressures during the LP Kit installation and before facia materials are installed over the front of this fireplace. Manifold pressure must be taken at the “MANIFOLD PRESSURE" tap and inlet pressure at the "INLET PRESSURE" tap **with the burner operating** by a qualified installer.

	DESIRED INLET PRESSURE	MINIMUM INLET PRESSURE	MAXIMUM INLET PRESSURE	MANIFOLD OUTLET PRESSURE	AIR SHUTTER POSITION
L.P. GAS	**12.0" W.C**. (2.99 kPa)	11" W.C. (2.75 kPa)	13.0" W.C. (3.24 kPa)	10.0" W.C. (2.5 kPa)	1/4" OPEN MIN. (5 mm)

REGULATE THE FLAME HEIGHT TO "HIGH" POSITION. OUTLET GAS PRESSURES MAY VARY PLUS OR MINUS 5%.

LPG PROPER INPUT RATES:

With the proper orifices installed, as specified above, this fireplace utilizing LP Gas will have a maximum input rate of 31,000 Btu/Hr.

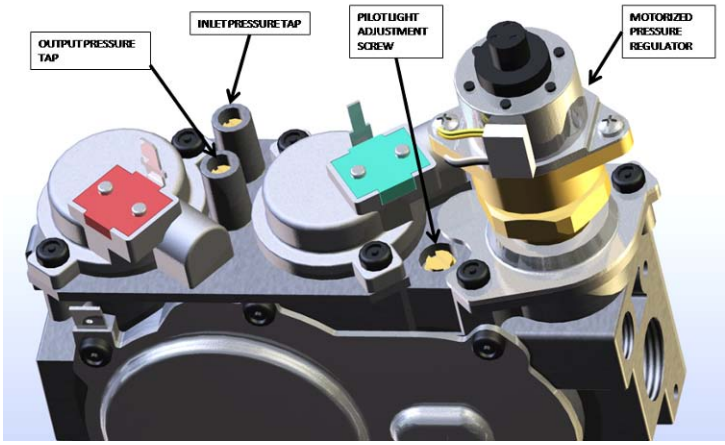


Figure 1: Pressure Test Port

LEAK TESTING REQUIREMENTS

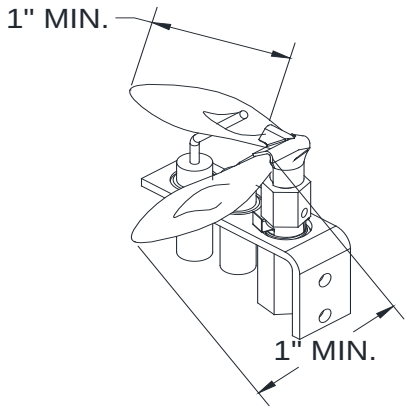
Prior to completing the conversion process, check for gas leaks with soap and water solution at all plumbing joints prior to placing this appliance into operation. It is recommended that all gas-plumbing joints, factory installed and field installed are checked for leaks.

PILOT FLAME AND MAIN BURNER RELATIONSHIP VERIFICATION

Prior to completing the conversion process, the qualified service technician must, light the pilot light and verify the relationship between the pilot light flames and the main burners. The pilot light flames directed towards the propagation ports on the burner must overlap the propagation ports on the burner. The pilot light flames must be a minimum of 1” long and must overlap the propagation ports on burner. Verify that the burner ignites quickly and the burner flames propagate smoothly along the entire length of the burner.

PILOT FLAME LENGTH ADJUSTMENT

If the pilot light flame length is too short and the system does not maintain a standing pilot, a qualified installer may increase the length of the pilot light flames to meet the two requirements: Minimum pilot light length to maintain a standing pilot light and the pilot light flames must be long enough to overlap the burner propagation ports.



CHECKING FOR NORMAL BURNER (S) IGNITION CHARACTERISTICS

Once the conversion to LPG and all the above steps have been completed, light the main burners.
Press "ON" button on Remote Transmitter. Pilot should ignite after gas line is purged of air and Main burner should now light and flame should not "lift" off burner. If there is any delay in ignition or if flame is "lifting off" burner, turn off burner and carefully check for proper installation of media, vent system and proper pilot flame impingement on burner and thermopile. Logs or coals must not block pilot flame or main burner flame. Vent system must be leak proof.

WARNING
DO NOT PROCEED WITH OPERATION OF THIS FIREPLACE
UNLESS BURNER "CYCLES" ON/OFF WITHOUT DELAYS!

ATTACHING LPG CONVERSION LABELS AND HIGH ALTITUDE DERATION LABEL

Two printed informational labels are included with the LPG Conversion Kit. Attach these two labels to the rear surface of this insert adjacent to the Serial Number Plate. If you are derating this appliance at a high altitude, also attach the High Altitude Deration Label, supplied in the Owner's Manual Packet, to this same surface adjacent to other labels.
Prior to attaching the labels, fill in all the information that is requested in these labels.

For installations from 610-1370 meters (2000-4500 ft.) the orifice sizes (DMS) for natural and propane gas are _#42_ and _#53"_, respectively. See data plate for additional information. For high altitude installations consult the local gas distributor or the authority having jurisdiction for proper rating methods. If the installer must convert the unit to adjust for varying altitudes, the information sticker must be filled out by the installer and adhered to the appliance at the time of conversion." «Cet appareil est equipé pour des altitudes compries entre 0 et 2000 pieds (0-610 m) seulement»

This appliance has been converted for use at an altitude of _____
Orifice size _____ Manifold Pressure _____
Input (Btu/h)_____ Fuel Type _____
Date of conversion _____ Converted by _____
«Cet appreeil a été converti au ____
Injecteur _____
Pression à la tubulure d'alimentation _____
Déoit calorifique _____

GAS LEAK TEST REQUIREMENT: It is the responsibility of the installer/service person to assure that each and every gas connection and supply tubing that are a part of this fireplace are leak proof. The qualified/ certified individual connecting the gas supply line, performing pressure tests or performing any service to this fireplace is required to perform a THOROUGH LEAK TEST on ALL gas fittings that are a part of this appliance or the gas supply line connection using soap-water solution or a calibrated combustible gas detector. Failure to perform this leak test may lead to a house fire and/or an explosion. Mendota is not responsible for any damages due to an Installer's failure to conduct a leak test and verify that all connections and supply lines are leak proof.

WARNING: Do not operate appliances with glass front removed, cracked, or broken. Replacement of glass should be done a licensed or qualified service person.

Note: Consult the local or national installation code(s) to assure that adequate combustion and ventilation air is available.

WARNING: It is of the utmost importance that the correct burner orifices be installed for the burner.

CUSTOMER INFORMATION AND TROUBLE-SHOOTING

MAXIMUM ALLOWABLE SURFACE TEMPERATURE

Mendota Inserts/Fireplaces comply with UL Standards for maximum surface temperatures on exposed combustible surfaces adjacent to the Insert. The Maximum allowable surface temperature is 117° F. over ambient (room) temperature. Thus, if a room is 70° – 80° the exposed combustible surfaces immediately surrounding the Insert can have a surface temperature as high as 187° F. – 200° F. (Too hot to touch).

OVER FIRING/UNDER FIRING OF BURNER

NEVER "over fire" units by adjusting gas pressure to increase BTUH above nameplate specifications. Over firing can cause permanent damage to firebox and deterioration of parts and void warranty.
NEVER "reduce" main burner or pilot flames length to less than 1" .

PILOT OUTAGE AND RE-LIGHTING

If pilot goes out, be sure to wait a minimum of five minutes before attempting to re-light the pilot.

CLEANING VIEWING GLASS

The viewing glass should be cleaned periodically. Exterior glass may be cleaned with cleaner as desired. For Interior glass, use soap and water. NEVER USE ABRASIVE CLEANERS, NEVER CLEAN GLASS WHILE OPERATING, OR WHEN GLASS IS HOT.

NOTE: Additives that are put in gas (both natural and propane) to make it smell can be harmful to glass and can leave a white film deposit on the glass. This deposit can be removed with cleaners such as KEL KEM "Polish Plus" (# 65-06-00455, See your dealer for availability).

In some cases (especially propane) additives can cause "crazing" or etching on the glass. Although this is not normal, it is not covered under the warranty. The solution may be to change propane suppliers.

Sooting is caused by improper installation or operation. At the first sign of "sooting" (usually a thin black film on the Fireplace viewing glass) the unit must be immediately turned off and the local Mendota dealer promptly informed. Mendota products are designed and tested to operate without producing any "sooting" when installed and operated correctly. Mendota dealers will correct "sooting" problems, but Mendota and their dealers are not responsible for damage caused by excessive sooting that has not been immediately brought to their attention.

AGA/ANSI APPROVAL

Gas appliances must be tested and certified by a nationally recognized testing and certification laboratory to ANSI [American National Standards Institute] gas appliance safety standards.

The Mendota Gas Fireplace Insert has been tested and certified by Intertek Testing Services, 8431 Murphy Drive, Middleton, Wisconsin 53562.

The Mendota Gas Fireplace Inserts have met all necessary AGA/ANSI Standards and are fully certified for installation in any community.

TROUBLE SHOOTING MENDOTA GAS FIREPLACE INSERT

SYMPTOM	PROBABLE CAUSES	CORRECTIVE ACTION
1. Thin black coating [soot] forms on viewing glass.	A. Incorrect gas pressure B. Not enough combustion air	Have gas supplier check for correct gas pressure [7" W.C. Nat. Gas; 11" W.C. LP Gas]. If sooting continues open-air shutter on burner [see "Gas Flame Adjustment" below]. If sooting still continues, call a Mendota dealer. **NOTE:** To clean glass - remove glass and wipe glass with cloth or paper towel.
2. Humming or whistling coming from Fireplace Insert.	A. Normal operating noise.	Some noise is normal. It is caused by the gas supply flowing through the gas orifice. It is expected from any gas fireplace. The noise can be reduced by reducing flame height using the remote control. Turning down the flame will reduce the heat output of the Insert.
3. A change in flame appearance or burner operation.	A. A change in gas pressure. B. Carbon dirt or lint.	Have your gas supplier check for correct gas 7" W.C. Nat. Gas; 11" W.C. LP Gas]. If flame still needs adjustment see "Flame Adjustment" below. Clean out carbon, spider webs, lint, etc. from shutter area. NEVER BLOCK AIR INTAKE OR OUTLET VENTS.

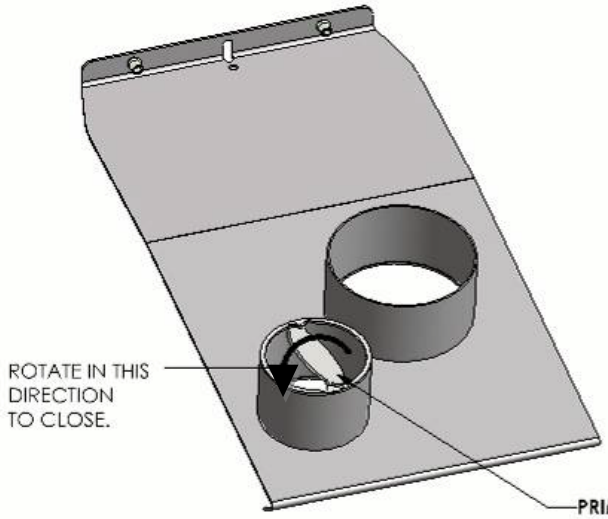
BURNER FLAMES ADJUSTMENT- AIR INTAKE DAMPER CONTROLS

This appliance is equipped with two Air Intake Adjustment Damper Controls: PRIMARY DAMPER and SECONDARY DAMPER. It is important to understand the functions of the two dampers prior to adjusting them.

VENT LENGTH	DAMPER POSITION
10-20 FEET	45° OPEN
30 FEET	60° CLOSED
40 FEET	75° CLOSED
50 FEET	90° CLOSED
50-70 FEET	90° CLOSED

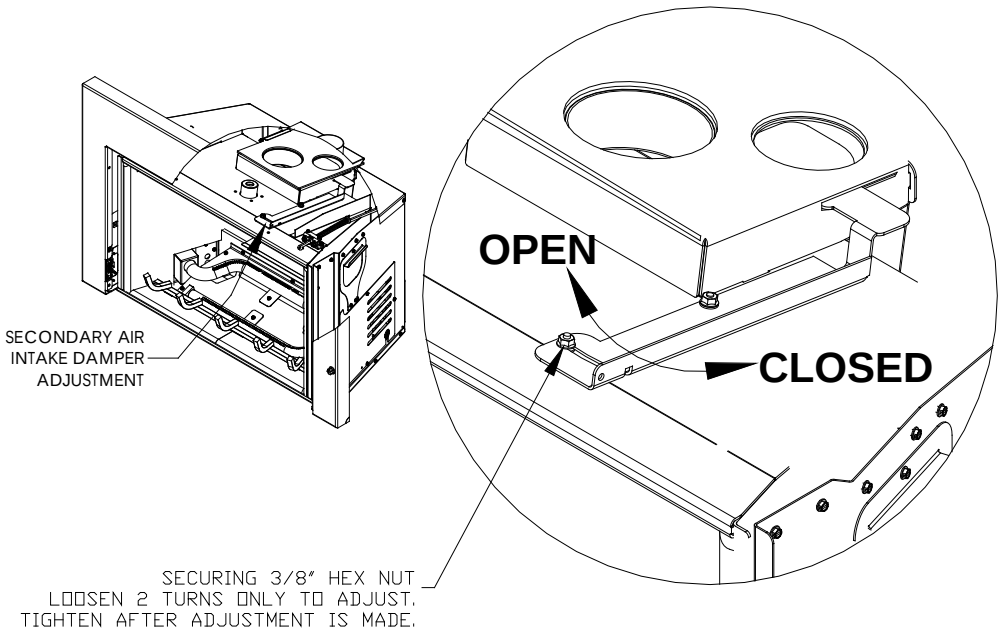
PRIMARY AIR INTAKE DAMPER: The PRIMARY AIR INTAKE DAMPER is located on the top of the Air Intake Pipe attachment Stub. This Damper is factory set at 45 degrees OPEN.

This damper is manually adjustable and must be adjusted during installation of this appliance. For Vent Systems lengths less than 20 feet, leave this damper at its factory adjusted (45 degree OPEN) setting. Starting at vent system lengths of 30 feet, adjust the damper position according to the table. Note that this table is a general guideline only. Each installation will yield a different air-flow characteristic and may need some slight adjustment beyond what this table calls for.



PRIMARY VENT DAMPER
[SHOWN IN 45° OPEN(FACTORY ADJUSTED) POSITION]
CLOSE INCREMENTALLY AS THE VENT SYSTEM INCREASES IN LENGTH. BELOW 20 FEET LEAVE IN FACTORY POSITION. ABOVE 20 FEET, CLOSE APPROXIMATELY 15° FOR EVERY 10 FEET ABOVE 20 FEET. ABOVE 50 FEET, CLOSE FULLY.

SECONDARY AIR INTAKE DAMPER: The SECONDARY AIR INTAKE DAMPER is located in the convection air cavity on top of the firebox. It is accessible through the ½" slot that is located directly above the glass frame's top surface. The SECONDARY AIR INTAKE DAMPER is factory adjusted to "FULLY CLOSED". Adjust this damper to fine tune the Flame Height. Specifically, if the flame is licking the top Baffle Brick, open this damper. In most installations, the Primary Air Intake Damper adjustment will suffice. However, if the vent system restricts air flow and the flames appear too tall and lick the baffle brick completely, you may choose to open the Secondary Air Intake Damper to reduce the flame height. This feature will be of the most use in LPG applications.



To adjust, use a 3/8" Open End Wrench to loosen the securing hex nut 2 turns ONLY. Use Glass Latch Tool to Slide Damper Bracket to the right towards "CLOSED" or to the Left towards "OPEN".

BURNERS AIR SHUTTER CONTROLS

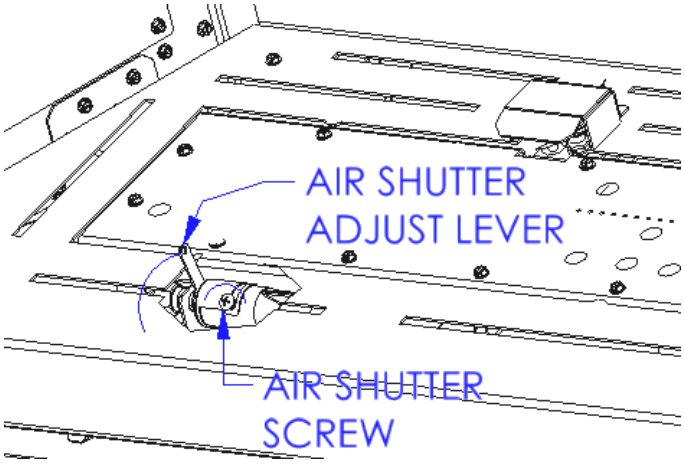
During the initial installation, the Front Burner Rotary Manual Air shutter opening should be checked to make certain that the shutter is set correctly at 1/16" open for natural gas and 1/4" minimum open for L.P. gas. NOTE: For altitudes above 5,000 ft., increase to 1/8" Open for NG and 3/8" Open for LPG.

Be sure burner and media are properly installed. After burner has been properly installed and operated for 25-30 minutes, small additional adjustments to the air shutter may be necessary for final flame appearance. These small shutter adjustments can be made by the following procedure:
[**NOTE: Very small changes in shutter settings make <u>major</u> changes in flame appearance.]**

This appliance is equipped with a burner that has a manual primary air shutter control.

1. If flame is too "blue," push air shutter knob in (close) in small increments until flame turns desired realistic "orange."
2. If flame is too "orange" and has sooty tips, pull air shutter knob out (open) in small increments until sooting stops. IF SOOTING DOES NOT STOP,TURN OFF UNIT AND CALL YOUR MENDOTA SERVICE PERSON to inspect the Vent System.

IMPORTANT: Try each new shutter setting approx. ½ hr. before making additional changes. NOTE: Changes in front burner flame can be made by re-arranging the coals and front burner air shutter opening. (See above.)



WARNING: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

REPLACEMENT AND SERVICE PARTS

Replacement parts are available through your authorized Mendota Dealer. Contact your Mendota Dealer for all service and replacement parts needs.

COMMON REPLACEMENT PARTS LIST	
05-02-00348	PROFLAME RECEIVER KIT (ST)
05-02-00351	SOLENOID, 885 PROFLAME SIT VALVE
05-02-00352	IPI CONTROL BOARD
05-02-00353	FAN CONTROL MODULE
05-02-00361	PROFLAME TRANSMITTER (GTMFS) BLACK

GAS VALVE TRAIN ASSEMBLY REPLACEMENT PARTS LIST

FV33-M VALVE ASSEMBLY COMPONENTS LIST			
KEY#	**QTY**	**Part Number**	**Description**
1	1	05-02-00344	885 PROFLAME SIT VALVE
2	1	05-04-00062	PSE-NA361, 2 WAY HOOD PILOT
13	1	65-07-00744	VALVE,BALL 1/2FPT X 3/8 FLARE
14	1	65-14-00045	ORIFICE, #45 17,072 BTU NAT
15	1	65-14-00049	ORIFICE, #49 13,530 BTU NAT
16	1	HA-57-00714	MANUAL SHUT-OFF HANDLE, FV44i

GLASS FRAME ASSEMBLY REPAIR AND REPLACEMENT

DO NOT substitute other manufacturer's materials or components.

DO NOT operate unit with cracked, broken or missing glass.

DO NOT abuse the glass door by striking the glass, slamming the door shut, etc

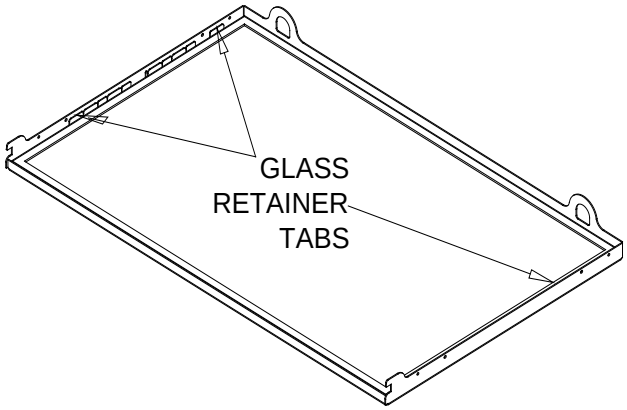
WARNING
Use only authorized parts and materials obtained from Johnson Gas Appliance Company when replacing defective or damaged glass.

WARNING
Do not operate this appliance with the glass removed, cracked or broken. Glass should be replace by a licensed or qualified person.

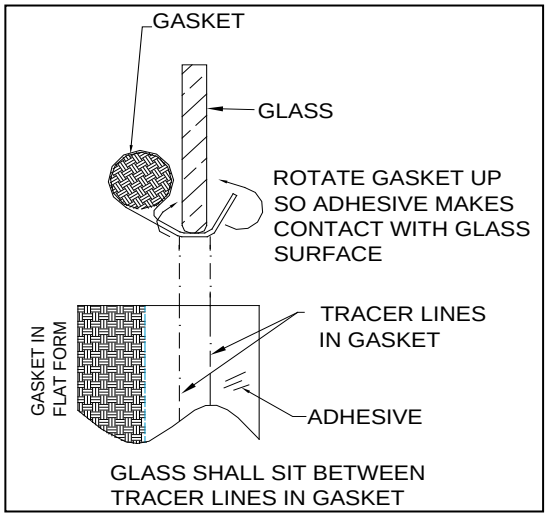
TO REPLACE DAMAGED GLASS

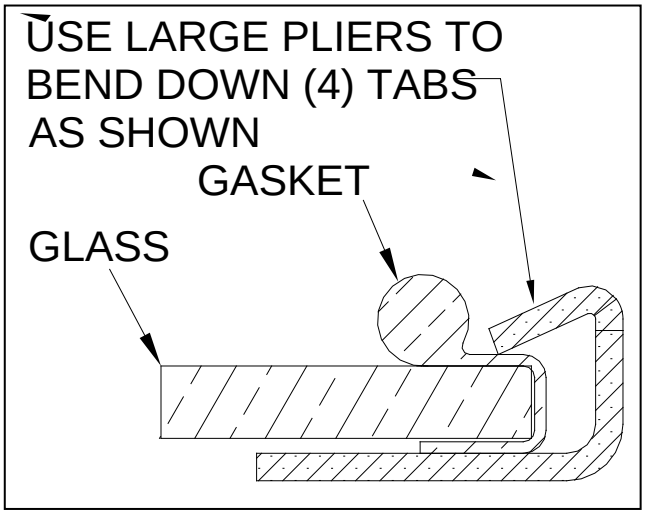
1. Bend Glass Retainer Tabs up 90 degrees. Four tabs hold down the glass and gasket assembly.
2. Remove the damaged glass and gasket material. Clean the inner surface of the glass frame.
3. Assemble new gasket on glass edge starting with the bottom left corner. The adhesive on the gasket should make contact with the glass surface. Use tracer lines in gasket to determine where the glass should sit on the gasket surface.
4. Place glass and gasket assembly in glass frame and carefully bend down glass retainer tabs. Extra glass retainer tabs are provided should any originally used tabs break off.

The glass frame assembly and its individual components are available through Johnson Gas Appliance Company. Contact your dealer for more detailed ordering information.



GLASS FRAME ASSEMBLY # HA-82-00403 REPLACEMENT PARTS LIST		
ITEM	**PART NUMBER**	**DESCRIPTION**
1	HA-82-00419	FRAME, WELDMENT, GLASS, FV33-M
2	65-02-00103	GASKET, TADPOLE, 3/8"BULB, 3/4" TAIL
3	65-06-01272	GLASS, CERAMIC, FV33-M


GASKET
GLASS
ROTATE GASKET UP SO ADHESIVE MAKES CONTACT WITH GLASS SURFACE
TRACER LINES IN GASKET
GASKET IN FLAT FORM
ADHESIVE
GLASS SHALL SIT BETWEEN TRACER LINES IN GASKET



MENDOTA WARRANTY QUALIFICATION & SERVICE REFERENCE FORM

As a part of Mendota's on-going program of customer satisfaction, this Form verifies proper installation and operation. It is important as a reference for future service. It insures long life and trouble-free operation of Mendota fireplaces & stoves and qualifies the owner for Mendota's lifetime limited warranty. Owner should sign Form when completed. Optionally, please register at our website at : WWW.JOHNSONGAS.COM/MENDOTA-REGISTRATION.ASP

HOME OWNER: _____ DEALER: _____

ADDRESS: _____ ADDRESS: _____

CITY/STATE/ZIP: _____ CITY/STATE/ZIP: _____

SIGNATURE: _____ PHONE: _____

MODEL **#: FV33-M** SERIAL #: _____ DATE INSTALLED: _____

GAS _____ NAT or _____ L.P.

Mendota Fireplace Inserts are sophisticated, hi-tech gas appliances. All installation and operating instructions must be carefully followed. This Insert must be installed and serviced by a qualified Mendota approved service person.

REF: MENDOTA GAS FIREPLACE INSERT

- ❑ APPROVED VENT PIPES AND VENT CAP INSTALLED - Per Manual and manufacturer's specifications
- ❑ CHECK FOR PROPER CLEARANCES TO COMBUSTIBLES - Per pipe manufacturer's specifications
- ❑ INSTALL PROPER SIZE GAS LINES - CHECK FOR GAS LEAKS - Per Manual
- ❑ CHECK FOR CORRECT GAS PRESSURE AT SUPPLY INLET
  - a. 5 Inches Water Column Minimum - Nat. Gas
  - b. 11 Inches Water Column Miniimum - L.P. Gas
- ❑ CYCLE BURNERS ON/OFF FOR PROMPT IGNITION - Per "LIGHTING INSTRUCTIONS"
  Burner must light IMMEDIATELY - Flame must travel promptly around "curve" & light burner.
- ❑ INSTALL BURNER MEDIA AND ADJUST FLAME - Per Manual
  Proper pilot flame impingement on thermopile & burner - Air shutter opening: 1/8" - 1/4" Nat. Gas - 1/2" LP
- ❑ BRIEF OWNER ON OPERATION AND MAINTENANCE OF UNIT
  - □ Light Pilot □ Operate Burner

WARRANTY REGISTRATION

Your Name _____

Address _____

City _____ State ____ Zip _____

Dealer (Place of Purchase) _____

City _____ State ____ Zip _____

Date of Purchase _____ Serial Number _____

Purchaser's Signature _____

MENDOTA FIREPLACE INSERT, FV33-M

CUT OUT PAGE AND MAIL TO: JOHNSON GAS APPLIANCE CO., 520 E AVE. N.W. , CEDAR RAPIDS, IOWA 52405

OR REGISTER YOUR NEW INSERT AT: WWW.JOHNSONGAS.COM/MENDOTA-REGISTRATION.ASP

TAPE SHUT

POSTAGE
NEEDED

JOHNSON GAS APPLIANCE COMPANY
520 E AVENUE N.W.
CEDAR RAPIDS, IA 52405

MENDOTA EXTENDED LIFETIME PROTECTION AND LIMITED WARRANTY

MENDOTA GAS FIREPLACE INSERT
MODEL: FV33-M NAT. & L.P.

Mendota Division of Johnson Gas Appliance Company, 520 E Avenue N.W. Cedar Rapids, Iowa 52405, extends this Extended Lifetime Protection and Limited Warranty to the original purchaser of a Mendota Gas Fireplace Insert, Serial Number_____, which is limited and used under normal home conditions.

STANDARD WARRANTY:

JOHNSON GAS APPLIANCE CO., MENDOTA DIVISION, WARRANTS THAT YOUR NEW MENDOTA GAS FIREPLACE INSERT IS FREE FROM MANUFACTURING AND MATERIAL DEFECTS FOR A PERIOD OF ONE YEAR FROM THE DATE OF INSTALLATION, SUBJECT TO THE FOLLOWING CONDITIONS AND LIMITATIONS:

EXTENDED LIFETIME WARRANTY:

THE HEAT EXCHANGER, THE BURNER TUBE, THE COMBUSTION CHAMBER AND THE OUTER SHIELD OF THE MENDOTA GAS FIREPLACE INSERT ARE WARRANTED FOR THE LIFETIME OF THE ORIGINAL OWNER, SUBJECT TO PROOF OF PURCHASE AND THE FOLLOWING CONDITIONS AND LIMITATIONS:

1) This new Mendota Fireplace Insert must be installed and serviced by a competent, authorized service contractor. It must be installed and operated at all times in accordance with the installation and operating instructions furnished with the Fireplace. All adjustments to logs, coals or burner must be made by an authorized Mendota Service person.

This limited warranty does not cover the cost of service calls, the cost of labor to remove or install parts covered by this limited warranty, freight or other transportation expenses that may be incurred in connection with obtaining performances under this limited warranty. The remedy for damages as the result of any defects in this product which have been warranted herein is limited to replacement parts and does not include any incidental, indirect or consequential damages or expenses sustained in connection with the products, including damages to property, except as provided by law.

2) This warranty is non-transferable and is made to the original retail purchaser, provided the purchase was made through an authorized Mendota dealer.

Mendota is not responsible for any damage to or malfunction of the Insert unless caused by a defect in material or workmanship from normal home use. Damage caused by abuse, improper installation or operation, installation by unqualified personnel or breach of the conditions of this limited warranty will excuse Mendota from performance of any part of the limited warranty. This warranty does not cover glass or log breakage.

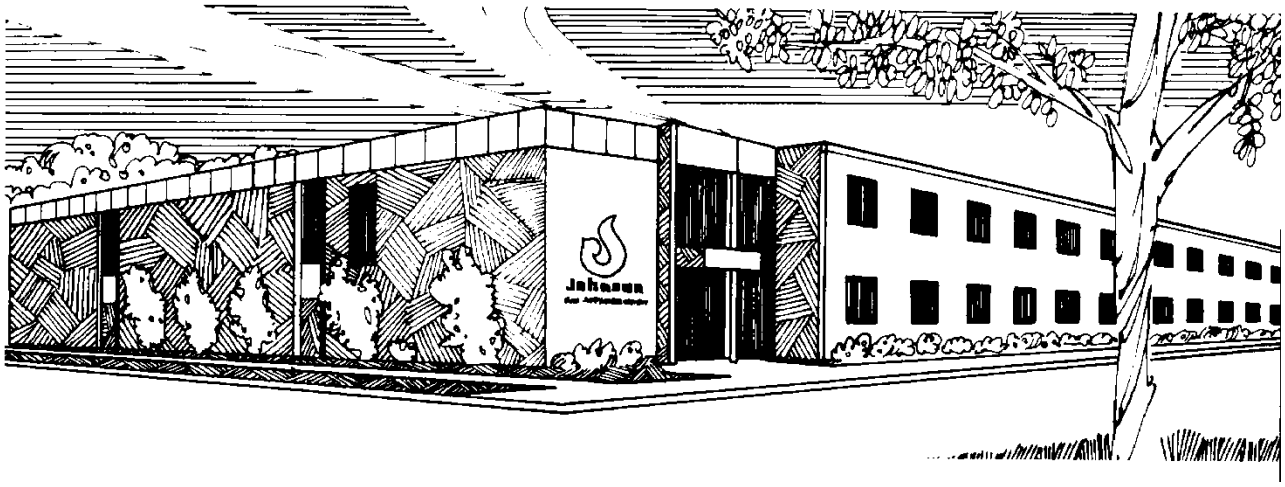
Mendota has the right to investigate and inspect the exact original fireplace and materials, in the event a claim is made (without alterations or tampering), to determine whether the claimed damage or malfunction was caused by abuse, improper installation or other cause outside this warranty. Mendota is not responsible for any repairs or material purchases that have not received prior written approval from Mendota.

NOTE: Minor warping of certain parts or discoloration is normal and is not a defect covered by this limited warranty. Over-firing of your Mendota Fireplace Insert can cause major warping of parts. Over-firing above rated nameplate specifications is contrary to the manufacturer's instructions and WILL void this warranty.
This warranty may not be extended by our representatives in any manner. The company neither assumes, nor authorizes any third party to assume, on its behalf, any other liabilities with respect to the sale of this Mendota product.

3) Mendota may at its discretion, fully discharge all obligations of this warranty by refunding the wholesale price of the defective part(s).
4) All other warranties - expressed or implied - with respect to the product, its components and accessories, or any obligation/liabilities on the part of the company are hereby expressly excluded. Products made by other manufacturers, sold with the Fireplace or thereafter, are not covered by this limited warranty. The use of unauthorized components will make this warranty null and void.

This warranty shall be effective only if the original purchaser of the Mendota appliance is registered with Mendota Division within thirty (30) days of the date of purchase. Such registration or the failure to register shall not be deemed to created any obligation or liability by the manufacturer and this warranty with its conditions and limitations shall be the only procedure for obtaining any rights against the manufacturer and expresses the sole obligation and responsibilities of the manufacturer which are offered to the original purchaser and accepted upon purchase of the appliance.

Mendota Division, reserves the right to make changes at any time without notice, in design, material, specifications, prices and the right to discontinue styles and products.
Some states do not allow the exclusions of limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights, which vary from state to state.



Johnson Gas Appliance Company
520 E Avenue N.W. - Cedar Rapids, IA 52405

Website: www.johnsongas.com or www.mendotahearth.com